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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

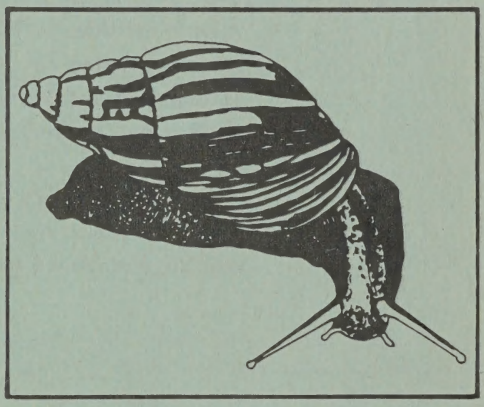
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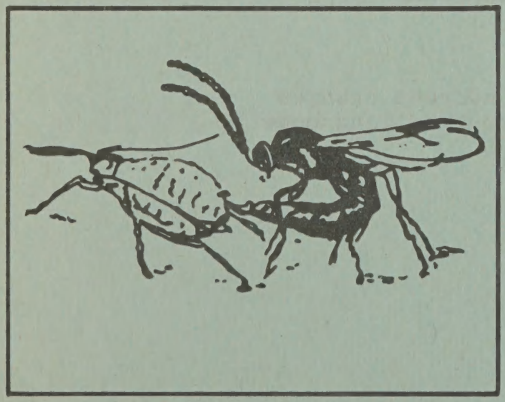
Vol. 4

No. 24

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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

ARMYWORM problem in many wheat fields in northwestern Ohio. (p. 442).

CROWN AND STEM ROT COMPLEX caused heavy alfalfa looses in Maryland. (p. 443).

ALFALFA WEEVIL problems expected in upper two-thirds of Wisconsin. (p. 443).

POTATO LEAFHOPPER 1 or more per sweep of alfalfa in parts of south-central Wisconsin, northern Ohio, and Maryland. (p. 443-444).

PEA ROOT ROT loss estimates about 80% in many pea fields in Wisconsin. (p. 447).

GRASSHOPPERS heavy on crops in parts of Central Coast of California, moved into croplands in eastern Washington, and problems increased in parts of Utah. (p. 452).

Prediction

ARMYWORM adults up to 2,000 per night in blacklight traps in eastern and southern parts of Nebraska; egg laying could occur over southeastern corner of State next period. (p. 442).

Detection

For new county records see page 454.

Some First Occurrences of the Season

EUROPEAN CHAFER in Michigan. POTATO LEAFHOPPER nymphs and MEXICAN BEAN BEETLE larvae in Ohio.

Reports in this issue are for the week ending June 29 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON SMUT (Ustilago maydis) - WISCONSIN - District> County= status on corn: WC> Trempealeau= leaf infections began to develop. (O.L. Lovett).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - INDIANA - Survey on corn June 10-16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	none seen		tassel
WC> Parke	1	1	silks emerged
WC> Clay	1	5	tassel
WC> Owen	none seen		tassel
SW> Greene	none seen		silks emerged
SW> Daviess	90	8	silks emerged
SW> Knox	none seen		tassel
SW> Gibson	none seen		tassel
SW> Posey	none seen		tassel
SW> Warrick	none seen		12 leaves emerged
SW> Spencer	none seen		tassel
SW> Dubois	none seen		12 leaves emerged
SC> Lawrence	none seen		tassel
C> Morgan	none seen		tassel

STEWART'S WILT (Erwinia stewartii) - INDIANA - Survey on corn June 10-16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	none seen		tassel
WC> Parke	none seen		silks emerged
WC> Clay	none seen		tassel
WC> Owen	none seen		tassel
SW> Greene	none seen		silks emerged
SW> Daviess	none seen		silks emerged
SW> Knox	none seen		tassel
SW> Gibson	none seen		tassel
SW> Posey	none seen		tassel
SW> Warrick	none seen		12 leaves emerged
SW> Spencer	none seen		tassel
SW> Dubois	70	10	12 leaves emerged
SC> Lawrence	none seen		tassel
C> Morgan	none seen		tassel

MAIZE DWARF MOSAIC VIRUS - INDIANA - Survey on corn June 10-16 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Montgomery	none seen	tassel
WC> Parke	none seen	silks emerged
WC> Clay	none seen	tassel
WC> Owen	none seen	tassel
SW> Greene	trace	silks emerged
SW> Daviess	none seen	silks emerged

District> County	Prevalence (%)	Host stage
SW> Knox	none seen	tassel
SW> Gibson	none seen	tassel
SW> Posey	none seen	tassel
SW> Warrick	none seen	12 leaves emerged
SW> Spencer	none seen	tassel
SW> Dubois	none seen	12 leaves emerged
SC> Lawrence	none seen	tassel
C> Morgan	none seen	tassel

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEBRASKA - District> County= status on corn: C> Buffalo, Howard, Hall, E> Merrick, Seward, York, Nance, Butler, and S> Kearney= "shothole" damage and/or egg masses on 0-22% (averaged 2.5%) of plants in 73 of 216 fields (Raun, Monke); N> Brown, Rock, and Keya Paha= egg laying underway in 12 fields, infestation averaged 3%, and adults heavy in field margins (Andersen); SE> Clay= adults moderate in field margins but nights apparently too cool for egg laying (Peters); and E> Hamilton= no "shotholes" or egg masses in 3 fields of corn [46-61 cm extended leaf height] (Peters, Cranfill).

MISSISSIPPI - District> County= European corn borer counts on late-planted field corn: C> Webster, NC> Calhoun, Lafayette, NE> Union, EC> Monroe, and Oktibbeha= light. (R. Anderson). TENNESSEE - Still problem in middle area, larvae either in stalk or entering stalk. District> County= status on corn: Central Basin> Marshall, Maury, Williamson, Wilson, and Rutherford= infestations of 50+%; W> Madison, Haywood, Fayette, Hardeman, and McNairy= infested average of 16% or less, infestation 90% in 1 McNairy County field and Gibson= infested 80-90% of corn at Milan. (M. Cooper).

INDIANA - District> European corn borer status on corn: NW> infestation 50+% (ranged 56-76%) in 9 (47%) of 19 fields [about 1 m tall], most heavily infested fields in Starke, Pulaski, Jasper, and Newton Counties; NC> infestation 50+% (rate of 92%) in 2 (Fulton County) of 10 fields; NE> infestation 50+% (92% in Whitley County and 80% in Noble County) in 2 of 16 fields, adults still in many fields but most probably at end of egg laying cycle, no stalk penetration although rib penetration common, infestations heaviest in drought areas, and growers irrigating mostly in NW district (R. Meyer); and WC> larvae greatly reduced by recent heavy rains (T. Turpin).

OHIO - European corn borer adults still heavy in blacklight traps. See p. 455. District> County= damage by mostly 1st instar larvae in corn [late whorl] fields: NW> Putnam= 8%, Henry= less than 2%, 2%, 2%, 10%, and 12%, Lucas= 66%, Wood= less than 2%; NC> Sandusky= 14%; and NE> Wayne= 25% in 1 garden sweet corn plot. (G.P. Walker). WEST VIRGINIA - District> County= status on corn: E> Monroe and NW> Pleasants and Tyler= fed heavily in whorls, damage not heavy and counts not above economic levels. (J.D. Hacker). VIRGINIA - District> County= status on corn: E> Westmoreland= prevalent in most fields, infestations ranged 10-90%, earlier planted corn seemed more heavily infested (infestation 40% in early planted field and 2% in late-planted field); SE> Surry= damage 15-25% in several locations. (J.L. Garner).

MARYLAND - European corn borer treatments applied to 2,023-2,832 ha. Most larvae in 1st to 3rd instar. Area> status on corn: Eastern Shore> pupation about 10% on lower area, treatment applied to about 4,000 ha past 14 days.

(J.L. Hellman). NEW HAMPSHIRE - County= status: Hillsboro and Strafford= leaf feeding damage by European corn borer on sweet corn at Litchfield and Dover, respectively, should be increasing rapidly next 2 weeks; and at Lee in former county, adults collected in light traps. (J.L. Burger).

ARMYWORM (Pseudaletia unipuncta) - WISCONSIN - District> County= status on corn: C> Adams= small larvae on less than 1% of plants in 1 field. Adults in blacklight traps increased past 2 weeks as first generation began nearing full growth. (O.L. Lovett). KENTUCKY - Area> status on corn: Statewide> larval infestations spotty in several fields, no fields required treatment. Problem expected to increase next few days due to present adult activity. (P.E. Sloderbeck). MARYLAND - Area> status on corn week ending June 22: Statewide> populations decreased rapidly, only 162 ha infested. (J.L. Hellman).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Survey for larvae in central area indicated second generation on corn. Results of survey according to dates (R. Anderson):

District> County	Instar	Row m per larva	Host height (cm)
June 19			
EC> Noxubee	2nd to 6th	23	46-76
EC> Winston	2nd to 4th	7.6	30-97
SE & Coastal> Newton	3rd to 6th	7.6	61-91
C> Scott	3rd to 6th	30.5	61-91
C> Leake	2nd to 6th	2	30-46
June 27			
C> Webster	2nd to 6th	23	61-91
NC> Calhoun	2nd to 6th	61.0	30-91
NC> Lafayette	3rd to 6th	30.5	76-91
NE> Union	3rd to 6th	61.0	76-91
EC> Monroe	3rd to 6th	18	61-76
EC> Oktibbeha	2nd to 6th	6.1	91-122

TENNESSEE - District> County= fall armyworm on corn: Central Basin> Williamson, Rutherford, and Bedford= larvae 1+ in all stalks examined, infestation spotty but 10-15% overall on corn [46 cm tall], and Marshall= infestation up to 17% in 1 site at Lewisburg. (M. Cooper, C. Pless).

STALK BORER (Papaipema nebris) - NEBRASKA - District> County= status on corn: N> Brown= 3rd to 4th instar larvae averaged 2 per plant on about 70% of plants in 17 fields previously in cover crops of winter rye, damage severe with growing point destroyed on about 30% of infested plants. (Andersen). WISCONSIN - May be slightly heavier than normal. District> County= status on corn: SC> Dane, Rock, and Green= larvae, 1.59 cm long, seldom more than 2 per plant. (O.L. Lovett).

OHIO - Stalk borer severely damaged infested corn plants. Damage usually concentrated in margins of field especially near grassy areas. District> County= status on corn [early to midwhorl] June 18-19: WC> Champaign, Auglaize, Logan, and Shelby, and C> Marion= damage marginal (G.P. Walker); NC> Ashland= stand reduction 4-5% in 12 ha no-till corn field and 20-40% in 26 ha no-till corn [early whorl] field (S. Clement).

MARYLAND - District> County= stalk borer on corn week ending June 22: NC> Baltimore, Carroll, and Frederick= about 1,212 ha damaged, infestation ranged 20-60%. Area> current status on corn: C> 2nd to 4th instar larvae still active in corn [15-43 cm tall], infestations spotty, ranged 30-80%, additional 200 ha infested. (J.L. Hellman).

CORN EARWORM (Heliothis zea) - KENTUCKY - District> County= larval status on sweet corn [partly emerged tassels]: Bluegrass> Fayette= mid to late instars infested 20% of small research plot. (P.E. Sloderbeck).

CORN ROOTWORMS (Diabrotica spp.) - NEBRASKA - District> County= larval averages per corn plant: C> Buffalo, Howard, Hall and E> Merrick, Seward, York, Nance, and Butler= ranged 0-5.7 (averaged 0.2) in 74 of 216 fields. (Monke, Raun).

INDIANA - District> County= WESTERN CORN ROOTWORM (Diabrotica virgifera) on corn: C> Marion and NW> last instar larvae on roots by June 21 through the central districts north of Indianapolis and by June 22 in the latter district (T. Turpin); and WC> Tippecanoe= prepupa collected June 26 (D. Leva).

WISCONSIN - District> County= Diabrotica spp. status: SC> Rock= larvae 0.63-0.953 cm long, in Janesville vicinity, no pupae found. Due to cool soil temperatures, first adults of season will probably be few days later than normal, perhaps not before July 14 in southernmost counties. (O.L. Lovett).

SUGARBEET WIREWORM (Limonius californicus) - WASHINGTON - District> County= larval status on sweet corn: C> Yakima= damaged 50% of 6.9-ha field at Toppenish. (H.H. Toba).

CHINCH BUG (Blissus leucopterus leucopterus) - NEBRASKA - District> County= status on sorghum: E> Seward= nymphs and adults destroyed 2-ha field previously in wheat this spring. (Lange).

SMALL GRAINS

DISEASES

Winter wheat harvest almost completed across south and underway in eastern Kansas, June 13-26, harvest 10-12 days behind normal. In spring small grain region, warmer temperatures last week stimulated crop growth. Some moisture stress in Illinois and Indiana. (A.P. Roelfs, D.L. Long).

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) trace on wheat in Casselton, NORTH DAKOTA, experimental plots June 12. (Miller). Trace leaf rust common on susceptible wheats in plots in southern MINNESOTA. Severities in commercial fields from 10% in eastern NEBRASKA up to 60% in north-central KANSAS; little increase will occur in latter area. (A.P. Roelfs, D.L. Long).

ILLINOIS - District> County= wheat leaf rust prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 18: C> Peoria= 100%/12% [milk]; NW> Bureau= 100%/20% [milk], Whiteside= 100%/25% [late milk], Carroll= 100%/12% [late milk], Jo Daviess= 100%/10% [late milk], Winnebago= 100%/3% [late milk], Ogle= 100%/6% [late milk], and Stephenson= 100%/10% [milk]; and NE> Boone= 100%/1% [milk] and McHenry= 100%/1% [late milk]. (E.G. Jordan). WISCONSIN - District> County= prevalence/severity on winter wheat: WC> Buffalo= 90%/10-20% of flag leaves in 1 field. (O.L. Lovett). OHIO - District> County= prevalence/severity on wheat [early dough] June 4-8: C> Ross= 100%/trace in 1 commercial field. (R. Hite).

WHEAT STRIPE RUST (Puccinia striiformis) found May 29 in central OKLAHOMA. (Young). Trace in nursery at Pratt, KANSAS. (Diehl). Low levels in Pacific Northwest. Rust starting to develop on spring wheat in Pacific Northwest and possibility of losses still exist if weather favors development. (A.P. Roelfs, D.L. Long).

OAT CROWN RUST (Puccinia coronata var. avenae) prevalence up to 100% on most susceptible oat cultivars in east-central KANSAS. (Sims). Severity up to 5% in nursery at Beresford, SOUTH DAKOTA. Trace in southern MINNESOTA. (A.P. Roelfs, D.L. Long). WISCONSIN - District> County= status on oats: WC> Trempealeau, La Crosse, Pierce, and NW> Chippewa= light infections developed, no severe development reported. (O.L. Lovett).

For stem rusts, see p. 4 -4 .

WHEAT POWDERY MILDEW (Erysiphe graminis f.sp. tritici) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 18: C> Peoria= 100%/6% [milk]; NW> Bureau= 100%/15% [milk], Whiteside= 100%/12% [late milk], Carroll= 100%/25% [late milk], Jo Daviess= trace/trace [late milk], Winnebago= 100%/30% [late milk], Ogle= 100%/18% [late milk], and Stephenson= 100%/15% [milk]; and NE> Boone= trace/trace [milk] and McHenry= 100%/2% [late milk]. (E.G. Jordan). OHIO - District> County= prevalence/severity on wheat [late milk to early dough] May 29 to June 8: WC> Clark, SW> Butler, Clinton, SC> Brown, and C> Franklin, Pickaway, and Ross= 99%/trace to 30%, mostly on lower leaves in 5 commercial fields and 2 variety performance trial plots. (R. Hite).

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 18: NW> Winnebago= trace [late milk] and NE> Boone= 2% [milk]. (E.G. Jordan). OHIO - District> County= prevalence on wheat [early dough] May 29 to June 8: SW> Butler and C> Ross= trace in 2 commercial fields. (R. Hite).

SPECKLED LEAF BLOTCH (Septoria tritici) - ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 18: C> Peoria= 100%/18% [milk]; NW> Bureau= 100%/12% [milk], Whiteside= 100%/12% [late milk], Carroll= 100%/6% [late milk], Jo Daviess= 100%/30% [late milk], Winnebago= 100%/12% [late milk], Ogle= 100%/15% [late milk], and Stephenson= 100%/18% [milk]; and NE> Boone= 100%/15% [milk] and McHenry= 100%/12% [late milk]. (E.G. Jordan).

SEPTORIA COMPLEX (Septoria spp.) - OHIO - District> County= prevalence/severity on wheat [late milk to early dough] May 29 to June 8: WC> Clark, SW> Butler, Clinton, SC> Brown, and C> Franklin, Pickaway, and Ross= 90-100%/from trace on upper leaves and glumes to 99% on lower leaves in 5 commercial fields and 2 variety performance trial nurseries. (R. Hite).

SCAB (Fusarium spp.) - ILLINOIS - District> County= prevalence on wheat [host stage] heads in 1 commercial field each, week of June 18: C> Peoria= trace [milk]; NW> Bureau= 1% [milk], Whiteside= 1% [late milk], Carroll= 1% [late milk], Jo Daviess= 2% [late milk], Winnebago= trace [late milk], Ogle= trace [late milk], and Stephenson= trace [milk]. (E.G. Jordan). OHIO - District> County= prevalence/severity on wheat [early dough] June 4-8: C> Ross= 40%/one-third to two-thirds of head in 1 commercial field. (R. Hite).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - OHIO - Problem in many wheat fields in northwestern area. Larvae began head clipping, some growers treated. Most fields free from damage. District> County= status: NW> Putnam= flag leaves completely stripped and head clipping 21% in wheat [soft dough] field, few days earlier larvae moved in heavy numbers into corn [midwhorl] field, controls applied to wheat and road, infestation less than 1% in corn; Henry and Putnam County line= some leaf feeding and head clipping but no larvae in 1 wheat [soft dough] field; Fulton= foliar damage on 42% of plants in 1 wheat field; and NC> Sandusky= foliar damage 6% and 2% and head clipping 4% and 2%, respectively, in 2 wheat fields. (G.P. Walker).

WISCONSIN - District> County= armyworm status: SC> Dodge and C> Green Lake= larvae (1.9 cm long) per 0.09 sq m in lodged winter wheat. Feeding activity by new larvae in oats may start in about 10 days. (O.L. Lovett). MICHIGAN - District> County= status on wheat and oats: SC> Clinton (M. Miller, M. Kers) and Shiawassee (M. Miller), C> Gratiot (D. Windsor et al.) and Montcalm (D. Windsor), SW> Kalamazoo (R. Hammon), and EC> Saginaw (P. Seitz)= problem increased, large larvae and some head clipping reported (R. Ruppel).

ASTER LEAFHOPPER (Macrosteles fascifrons) - WISCONSIN - District> County= adults per 100 sweeps of oats: NW> Polk and Barron and WC> St. Croix= 10-25. (O.L. Lovett).

CHINCH BUG (Blissus leucopterus leucopterus) - NEBRASKA - First generation egg hatch almost completed in southern Lancaster County. District> County= averages per 0.3 row m between 2 wheat rows: E> Lancaster= eggs 0.9, 1st instar nymphs 80.1, 2nd instar 38.5, 3rd instar 24.2, 4th instar 7.7, 5th instar 1.5, and adults 6.37. (Kind, Ahmad).

BROWN WHEAT MITE (Petrobia latens) - IDAHO - District> County= counts per wheat plant: E> Oneida= 20 on 121 ha, wheat severely stunted. (L.E. Sandvol).

TURF, PASTURES, RANGELAND

INSECTS

ARMYWORM (Pseudaletia unipuncta) - NEBRASKA - District> County= status: E> Colfax= larvae stripped bromegrass pasture and began to move into adjacent corn field (Miller); Hamilton, Lancaster, S> Adams, Kearney, NE> Antelope, SE> Clay, Richardson, and C> Valley= adults very heavy (Peters et al.); E> Hamilton and S> Phelps= adults averaged up to 2,000+ per night in blacklight traps June 26-27, large percentage of females carried fully developed eggs and egg laying could occur in grassy areas over entire southeastern one-fourth of State next period (Peters et al.).

EUROPEAN CHAFER (Rhizotrogus majalis) - MICHIGAN - First of season. District> County= adults: SE> Oakland= taken from trap June 19, adults swarmed around tree tops near rail/truck terminal at dusk, June 26. No turf damage to date. (M. Hanna).

FORAGE LEGUMES

DISEASES

CROWN AND STEM ROT COMPLEX - MARYLAND - About 40% of first alfalfa growth cut by June 8. Losses widespread and heavy due to very wet, cool weather. Entire first alfalfa cutting lost by most growers due to lodging and rot. Area> status: C> 10-40% stand reduction expected in 30% of alfalfa. (J.L. Hellman).

ALFALFA DOWNY MILDEW (Peronospora trifoliorum) - WISCONSIN - District> County= status: WC> Pierce= heavy development in alfalfa seeding where spring wheat used as cover crop. Drier weather and cover crop removal will help slow further development. (O.L. Lovett).

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEVADA - District> County= status on hay alfalfa June 8: S> Esmeralda= mostly early instar larvae averaged 12-15 per sweep at southern end of Fish Lake Valley. Previously in northern and central areas of valley. (K. Hill). UTAH - District> County= status on forage legumes: N> Cache= mostly controlled by early cutting. Regrowth in some fields slow with larval averages 3 and 5 per crown. (D.W. Davis, L. Jech). COLORADO - Area> larval status on alfalfa: NC> larval development slower than normal, some problems in second growth. (W.M. Hantsbarger).

WISCONSIN - District> County= alfalfa weevil status: NW> Barron, Polk, Chippewa, Washburn, and WC> St. Croix and Dunn= tip feeding 5-80% (most about 20%) on uncut alfalfa in alfalfa and alfalfa-grass mixtures, damage light to moderate; NE> Langlade= tip feeding 30%, Marinette and Lincoln= problems serious; WC> St. Croix and NW> Polk= presence of pupae indicated larval population peaked; SW> Vernon and Crawford, WC> La Crosse and Buffalo, and NE> Langlade= problems expected on regrowth alfalfa in upper two-thirds of State; NW> Washburn= small larvae fed on 30% of new terminals in second growth; and SC> Rock and Green= light on second growth. (O.L. Lovett).

OHIO - Alfalfa weevil adults entering diapause and searching for overwintering sites. District> County= counts per sweep of forage legumes: NW> Henry and Fulton and NC> Sandusky= larvae 0.10, 0.15, and less than 0.01 with second generation adults 0.20, 0.15, and 0.04, respectively. (G.P. Walker). MARYLAND - New adults still active. District> County= status on alfalfa: NC> Montgomery and Howard and S> Prince Georges= feeding damage in several fields (60.7 ha). (J.L. Hellman).

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - MARYLAND - Statewide, alfalfa fields outside central area only lightly infested, adults 1-6 per sweep. District> County= status on alfalfa: NC> Baltimore, Carroll, Howard, Montgomery, and S> Prince Georges= adults moderate to heavy on 1,214 ha, ranged 20-40 per sweep with 100% adult feeding damage on tips in most heavily infested fields. (J.L. Hellman).

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - Area> adult status: WC> and NW> 1 per 10 sweeps in unharvested alfalfa; SC> adults heavy, 0.5-2 per sweep of alfalfa [20-30 cm tall]. (O.L. Lovett). MICHIGAN - District> County= status on alfalfa: EC> Bay, SW> Cass, and Kalamazoo= threatening. (J. Weigold, R. Hammon). OHIO - Building up. District> County= counts per sweep of alfalfa: NW> Henry= 2.7 and Fulton= 0.9 and NC> Sandusky= 1.9. (G.P. Walker).

MARYLAND - Area> potato leafhopper adults per 10 sweeps of alfalfa: Statewide> 0.1-10, light; no yellowing to date. (J.L. Hellman).

SPOTTED ALFALFA APHID (Therioaphis maculata) - UTAH - District> County= status on seed alfalfa: C> Millard= most serious pest, averaged 4.4 per sweep. (L. Haskell).

SOYBEANS

DISEASES

PHYLLOSTICTA LEAF SPOT (Phyllosticta sojaecola) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves in 1 monitoring plot per county week of June 18: E> Champaign= trace/trace [4 nodes]; ESE> Fayette= trace/trace [5 nodes]; SW> St. Clair= trace/trace [3 nodes] and Jackson= trace/trace [4 nodes]; and SE> Pope= trace/trace [3 nodes]. (E.G. Jordan).

SOYBEAN BROWN SPOT (Septoria glycines) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves in 1 monitoring plot per county week of June 18: ESE> Fayette= 100%/9% [5 nodes], SW> Jackson= trace/trace [4 nodes], and SE> Pope= trace/trace [3 nodes]. (E.G. Jordan).

INDIANA - Soybean brown spot survey on soybeans June 10-16 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Montgomery	none seen		first trifoliolate leaf
WC> Parke	none seen		3 nodes
WC> Clay	none seen		first trifoliolate leaf
WC> Owen	none seen		first trifoliolate leaf
SW> Daviess	none seen		first trifoliolate leaf
SW> Knox	trace	5	3 nodes
SW> Gibson	none seen		first trifoliolate leaf
SW> Warrick	none seen		unifoliolate leaf
SW> Spencer	none seen		first trifoliolate leaf
SW> Dubois	none seen		unitrifoliolate leaf
C> Morgan	none seen		unitrifoliolate leaf

RHIZOCTONIA ROT (Rhizoctonia solani) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves in 1 monitoring plot per county week of June 18: E> Champaign= trace [4 nodes] and SE> Pope= trace [3 nodes]. (E.G. Jordan).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves in 1 monitoring plot per county week of June 18: SE> Pope= trace/trace [3 nodes] and ESE> Fayette= trace/trace [5 nodes]. (E.G. Jordan). WISCONSIN - District> County= prevalence/severity on soybeans: WC> Dunn= 5%/5%, little loss expected as plants seem to outgrow disease. (O.L. Lovett).

SOYBEAN MOSAIC VIRUS - INDIANA - Survey on soybeans June 10-16 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Montgomery	none seen	first trifoliolate leaf
WC> Parke	none seen	3 nodes

District> County	Prevalence (%)	Host stage
WC> Clay	none seen	first trifoliolate leaf
WC> Owen	none seen	first trifoliolate leaf
SW> Daviess	none seen	first trifoliolate leaf
SW> Knox	none seen	3 nodes
SW> Gibson	none seen	first trifoliolate leaf
SW> Warrick	none seen	unifoliolate leaf
SW> Spencer	trace	first trifoliolate leaf
SW> Dubois	none seen	unifoliolate leaf
C> Morgan	none seen	unifoliolate leaf

INSECTS

SOYBEAN LOOPER (Pseudoplusia includens) - FLORIDA - First larva of season. District> County= status on soybeans: C> Alachua= noted east of Alachua, June 18. (R.B. Baker).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - First larvae of season. District> County= status on soybeans: C> Alachua= collected west of Alachua, June 18. (R.B. Baker).

GRASSHOPPERS - ARKANSAS - District> County= status on soybeans: NE> Craighead= half-grown nymphs very heavy along turnrows and ditchbanks of field. Damage severe to about first 3 rows around field. Field borders and first 8 rows treated. (J. Kimbrough).

WEEDS

HEARTLEAF COCKLEBUR (Xanthium strumarium) - WISCONSIN - District> County= counts per 3.0 row m of soybeans: SC> Rock= 5 in recently cultivated field. (O.L. Lovett).

VELVETLEAF (Abutilon theophrasti) - WISCONSIN - District> County= counts per 3.0 row m of soybeans: SC> Rock= 1. (O.L. Lovett).

PEANUTS

INSECTS

CORN EARWORM (Heliothis zea) - FLORIDA - First larvae of season. District> County= status on peanuts: NW> Jackson= very light at Greenwood, June 19 (W.B. Tappan) and C> parts of Alachua, Levy, and Gilchrist= Heliothis spp. larvae scattered. (R.B. Baker).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - MISSISSIPPI - Decreased in pheromone traps past 2 periods. Limited amount of controls applied in southern area. (R. Anderson).

TENNESSEE - District> County= status on cotton: West Tennessee> Fayette, Hardeman, and McNairy= infestation still light to nonexistent, some terminal feeding evident. (J. Locke).

BOLLWORMS (Heliothis spp.) - NEW MEXICO - BOLLWORM (H. zea) potential problem due to heavy adult populations in cotton areas. (G.L. Nielsen). ARKANSAS - Heliothis spp. larvae lighter in most cotton fields in southeastern area than in past week. District> County= eggs and larvae, respectively, per 17 row m of cotton: SE> Ashley= up to 16 and 81 in some fields and Jefferson= 42 and 4 in 1 field (M. Wall, J. Kimbrough); light trap data: 44 H. zea and 3 TOBACCO BUDWORM (H. virescens) in 9 traps June 14-20 (M.A. Mayse). MISSISSIPPI - First generation Heliothis spp. eggs and larvae heavy in parts of State, eggs up to 50% and larvae up to 30%. Treatments applied in community suppression programs. First generation peaked in majority of State. (R. Anderson).

TARNISHED PLANT BUG (Lygus lineolaris) - MISSISSIPPI - Problems on limited number of hectares with spotted cotton fields receiving controls. Heaviest in Delta area. (R. Anderson).

TOBACCO

INSECTS

GREEN PEACH APHID (Myzus persicae) - NORTH CAROLINA - Cool temperatures contributed to rapid increase over entire Coastal Plain. District> County= status on tobacco: Central Coastal> Lenoir= 65 of 376 fields at threshold; Northern Coastal> Washington and Martin= 5 of 42 fields at or above threshold, populations increased from 10% to 30% of plants with moderate infestation in 7 days; and Southern Coastal> Bladen= 7 of 290 fields at threshold. (T.N. Hunt).

MISCELLANEOUS FIELD CROPS

INSECTS

DARKSIDED CUTWORM (Euxoa messoria) - NEBRASKA - District> County= larvae on sunflowers [newly emerged]: NE> Pierce= larvae fed on or cut off 7% of plants [newly emerged] in 1 field. (Jarvi).

SUNFLOWER MAGGOT (Strauzia longipennis) - INDIANA - First adult of season. District> County= status: EC> Union= adult collected June 19, probably present several weeks earlier. (R. Meyer).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - OHIO - Much spraying on field tomatoes in northwestern and north-central areas. Beetles few, but some damage occurred. District> County= status: NW> Henry= foliar damage light on 6% of plants in 1 field, and Putnam and Henry= damage not detected in most tomato fields surveyed; NC> Sandusky= some feeding damage on 26% of plants in 1 field, damage not detected in most tomato fields surveyed; and NE> Wayne= larvae up to 15 per potato plant in untreated plots in garden, did not affect tomatoes, and some larvae should be pupating soon. (G.P. Walker).

MEXICAN BEAN BEETLE (Epilachna varivestis) - IDAHO - First adults of season. District> County= status: SW> Ada= adults near Boise, June 21. (R.C. Saunders).

EUROPEAN CORN BORER (Ostrinia nubilalis) - WISCONSIN - Area> status: Central Sands> blacklight trap catches indicate adult flight continued, swept from potatoes past week. (O.L. Lovett).

STALK BORER (Papaipema nebris) - OHIO - Some damage in border rows of potatoes. District> County= larvae per 15 row m of border row: NE> Wayne= 20 in 1 field and 0 in second row, 9 in another plot with 0 in second row, and 16 in third plot with 6 in second row, and 0 in third row. (D. Simonet).

POTATO LEAFHOPPER (Empoasca fabae) - OHIO - First nymphs of season. District> County= status week ending June 22: NE> Wayne= on potatoes. (D. Simonet).

BEANS AND PEAS

DISEASES

PEA ROOT ROT (Aphanomyces euteiches) - WISCONSIN - District> County= prevalence/yield loss estimate per 100 pea plants: SC> Dodge= 36%/21%, Columbia= 13%/2%, Dane= 56%/28%, and Rock= 35%/20%; C> Green Lake= 78%/36%, Portage= 88%/38%, Adams= 58%/41%, and Waushara= 35%/15%; SE> Washington= 0%/0%, and Ozaukee= 21%/9%; SW> Sauk= 36%/20%; EC> Sheboygan= 1%/1%; and WC> Trempealeau= 23%/4% and La Crosse= 13%/3%. Prevalence 100% in many fields with yield loss estimates of about 80%. Counties with no infections indicate later peas where disease may not have had time to develop. (O.L. Lovett).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - OHIO - First larvae of season. District> County= larval status June 21: C> Franklin= on garden beans. (G.P. Walker).

PEA APHID (Acyrthosiphon pisum) - WISCONSIN - Population increased on peas and alfalfa in south-central area, treatment of peas started. Ranged 10-60 (averaged 15) per sweep in both crops, many large aphids indicate possible population outbreak. District> County= counts per sweep of peas: NW> Polk and WC> St. Croix= 0.2 and C> Waushara= 7. (O.L. Lovett).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - OHIO - Adults began to appear in blacklight traps. See p. 455. Larvae should appear on cole crops in several weeks. (D. Simonet).

CUCURBITS

DISEASES

CUCURBIT BACTERIAL WILT (Erwinia tracheiphila) - See STRIPED CUCUMBER BEETLE (Acalymma vittata) below.

INSECTS

STRIPED CUCUMBER BEETLE (Acalymma vittata) - OHIO - District> County= status on cucumbers: SE> Washington= none observed due to controls applied 6-7 times. Some CUCURBIT BACTERIAL WILT (Erwinia tracheiphila) noted. (W. Lyon).

DECIDUOUS FRUITS AND NUTS

DISEASES

APPLE SCAB (Venturia inaequalis) - MINNESOTA - District> status on apple: SE> found on 1 variety, very difficult to see in early stages. (D. Sreenivasam). VERMONT - County= percent unformed spores, percent spore immaturity, percent spore maturity, and percent discharged on fruit trees June 9-18: Windham at Putney= 0%, 47%, 10%, and 43% from commercial block; Addison at Shoreham= 0%, 14%, 8%, and 78%; Grand Isle at South Hero= 2%, 5%, 23%, and 70%; and Bennington at Bennington= 2%, 40%, 5%, and 53%. (R.E. Desrosiers).

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= total adults trapped and average (range) per trap weeks ending June 18 and 25, respectively: NE> Spokane= 211, 2.7 (0-14), followed by 166, 2.1 (0-12) at Greenbluff. Adults decreased sharply past 2 weeks, still slightly above 1978 for time of year. (E. Kupferman). OHIO - District> County= adults in pheromone traps: NE> Wayne and NC> Ashland= 22 in 4 traps June 9-15. (F. Hall).

WESTERN CHERRY FRUIT FLY (Rhagoletis indifferens) - WASHINGTON - District> County= adults in 22 sticky traps in cherry orchards: NE> Spokane= 5 at Greenbluff. (E. Kupferman).

EUROPEAN RED MITE (Panonychus ulmi) - OHIO - Increased but still below economic damage levels. District> County= counts per apple leaf in 1 orchard each: SC> Scioto= 5 and C> Fairfield= 2. (R.P. Holdsworth). MAINE - Very light in commercial apple orchards for time of year. Eggs 0.5-15.0 and adults 0.2-1.0 per leaf in treated orchards. Eggs averaged 40 and adults 26 per leaf in untreated trees. Second generation nearing full growth. (A. Gall).

FOREST AND SHADE TREES

INSECTS

SPRUCE BUDWORM (Choristoneura fumiferana) - MAINE - Area> status: Statewide> well into pupation, adults appeared. (A. Gall).

FALL WEBWORM (Hyphantria cunea) - NEW HAMPSHIRE - First adult of season. County= status: Strafford= collected at Lee, June 15. Adults should be more common in traps next 2 weeks. (Morse).

ELM LEAF BEETLE (Pyrrhalta luteola) - OHIO - Second generation adults expected soon. District> County= status: C> Franklin= first generation pupation began. (B.M. Drees).

A DIASPIDID SCALE (Quadraspidiotus taxodii) - FLORIDA - New county record. District> County= collection data on Taxodium distichum (bald-cypress): C> Polk= adults on leaves of 2 plants in nursery at Lakeland, May 31, 1979. Collected by L. Chambliss. Determined by A.B. Hamon. Stock in nursery 1+ years. (L. Chambliss).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - MISSISSIPPI - District> County= adults on cattle: C> Webster and EC> Oktibbeha, Monroe, Clay, and Lowndes= 50 to 400+. (R. Anderson). INDIANA - District> County= adult mean (range) per side of mixed breed cattle: WC> Warren= 29.5 (0-70) on 30 cattle and C> Grant= 8.1 (0-15) on 15 cattle. (E. Westby, R. Williams). OHIO - District> County= adults per side of cattle: C> Franklin= 40-50 in 1 herd, control about 99% on cattle with treated ear tags. (W. Lyon).

FACE FLY (Musca autumnalis) - NORTH CAROLINA - Population in area surveyed lighter per head than in 1977. District> County= averages per head in spot checks of 5 beef cattle herds from total of 15 herds on about 150 head: Western Mountain> Macon, Clay, and Cherokee= 10 compared with 25 in 1977. Temperatures lower than normal, light population expected to be temporary. (T. Hunt).

INDIANA - District> County= adult face fly mean (range) per face on mixed breed cattle: WC> Warren= 5 (1-8) on 30 cattle and C> Grant= 2.8 (0-8) on 15 cattle. (E. Westby, R. Williams). OHIO - District> County= adults per face: C> Franklin and SC> Jackson= averaged 40 in herd of ponies and on cattle, 17 on untreated animals and 5 on cattle with treated ear tags. (W. Lyon).

MOSQUITOES - MINNESOTA - Area> biting species in order of abundance; adult light trap collections; and larval collections: Metropolitan Mosquito Control District> Aedes stimulans, Aedes sticticus, and Aedes vexans annoyance levels still light; A. vexans 40%, Coquillettidia perturbans 16%, Aedes abserratus 6%, and Aedes cinereus 6%; and A. vexans 43%, Aedes spp. 42%, and Aedes cinereus 16%, heavy localized rain produced some spotty hatching of A. vexans; (D. Sreenivasam).

OHIO - Mosquito light trap catches June 27; Culex salinarius early this season (Ohio Dep. Health):

District> County	Species	Number
EC> Harrison	Aedes trivittatus	30-200 (averaged 70) per trap
NC> Huron	Aedes triseriatus	430 with 1 male in 1 trap
NC> Richland	Aedes vexans	11 in 1 trap
SW> Hamilton	A. vexans	64, 24, and 27 in 3 traps
C> Pickaway	A. vexans	16 in 1 trap
C> Pickaway	A. triseriatus	10 in 1 trap
C> Pickaway	Culex restuans	23 in 1 trap
SE> Washington	Culex salinarius	9 and 10 in 2 traps

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

NOSEMA DISEASE (Nosema apis) - MINNESOTA - Bee disease laboratory processed 123 samples for 1979. Significant levels of infection (1 million+ spores per bee) in 41.5% samples. (D. Sreenivasam).

INSECTS

A BRACONID WASP (Microctonus aethiopoides) - OHIO - This adult parasite of Hypera postica (alfalfa weevil) continued to increase in southern area and stabilized in northern area. Parasitism 50+% in all cases May 8-21. (J.K. Flessel).

District> County	Parasitism (%)	District> County	Parasitism (%)
SE> Meigs	53	EC> Belmont	62
SE> Washington	57	NE> Wayne	70
SW> Montgomery	65		

A DRYINID WASP (Aphelopus sp.) - OHIO - This parasite of Typhlocyba pomaria (white apple leafhopper) decreased. District> County= status: C> Fairfield= parasitism 54% in 500 white apple leafhoppers from 1 orchard. (R.P. Holdsworth).

A EULOPHID WASP (Tetrastichus julis) - INDIANA - District> County= recoveries of 20+% parasitism of Oulema melanopus (cereal leaf beetle) larvae from individual oat fields, May 18 to June 26: INDIANA - SE> Jennings= 33% in Spencer Township and NC> Elkhart= 70% in Middlebury Township; and MICHIGAN - NW> Manistee= 100% and 80% in Brown Township and SW> Berrien= 24% in Buchanan Township. (T.L. Burger).

A MYMARID WASP (Anaphes flavipes) - INDIANA - District> County= parasitism of Oulema melanopus (cereal leaf beetle) eggs from individual oat fields June 21: NE> Huntington= 75% and 67% in Clear Creek Township. (T.L. Burger).

AN ICHNEUMONID WASP (Lemophagus curtus) - MICHIGAN - District> County= parasitism of Oulema melanopus (cereal leaf beetle) larvae in oat field June 26: SW> Berrien= 24% in Buchanan Township. (T.L. Burger).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - MICHIGAN - District> County= parasitism of Oulema melanopus (cereal leaf beetle) larvae in oat field June 26: SW> Berrien= 48% in Buchanan Township. (T.L. Burger).

FEDERAL AND STATE PROGRAMS

DISEASES

BLACK STEM RUST (Puccinia graminis) aecia collected from barberry May 29 in Ontario, Canada. (Clark).

OAT STEM RUST (Puccinia graminis f.sp. avenae) on oats as far north as Belleville, KANSAS, June 13-26. Trace on all cultivars in nursery at Belleville. Following races identified from collections received before June 26 (A.P. Roelfs, D.L. Long):

State> County	Number of collections	No. of Isolates of Oat Stem Rust Races						
		NA-1	NA-2	NA-3	NA-5	NA-7	NA-24	NA-27
FL> Gadsen	2							6
TX> Atascosa	1				1			2
TX> Bee	60	9	2	4	5	1		145
TX> Bexar	2							6
TX> Brazos	3							3
TX> Concho	1							
TX> Frio	1	2						1
TX> La Salle	4							3
TX> Live Oak	1				3			
TX> McLennan	4	6					6	
TX> San Saba	1	3						

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) trace on wheat in trap plots of McNair 701 as far north as Clay Center, NEBRASKA, and Norton, KANSAS, June 13-26. Stem rust in OKLAHOMA generally a month later than normal. Few collections received. Following races identified from collections received before June 26 (A.P. Roelfs, D.L. Long):

State> Area	Number of Collections	Number of Isolates of Wheat Stem Rust Races									
		11	15	17		29	113		151	
		RCM	TNM	HDL	HNL	HJC	RPQ	RTQ	QCB	QFB
AL> Baldwin	4	7				3				
FL> Gadsden	1			1	2					
GA> Tift	6								1	16
LA> Franklin	2								6	
TX> Bee	8			1			1	3		4
TX> Bell	1	3								
TX> Uvalde	3		1			3				5
MX> Cd Obregon	6			2	4	9				3

For other cereal rusts, see p. 440-441.

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WEST VIRGINIA - District> County= adults on corn: NW> Pleasants and Tyler= leaf stripping light (J.D. Hacker) and SW> Jackson= fed on corn next to wheat field (R.L. Williams). VIRGINIA - District> County= status in corn fields: E> Westmoreland= present in most fields, severity of infestation depended on proximity of rows to adjacent small grain fields. (J.L. Garner).

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - District> County= status: S> Lee= additional finds up to 10 km from original site at Bonita Springs, infested area now includes Bonita Shores, Mission Camp, and Imperial Harbor. Initial treatment of host plants made within 5 km of infestation. Infestation too large for current treatment program; parasitic wasps to be released instead. Infestations at Bonita Springs isolated from areas where serious harm could occur. Indian River= eradication efforts to continue at Vero Beach. (F.W. Mead).

GRASSHOPPERS - CALIFORNIA - Melanoplus devastator moved into and devastated alfalfa, beans, and some grain fields. District> County= status week ending June 22: Central Coast> San Luis Obispo= heavy in San Juan Creek area, up to 300 per 0.8 sq m in some spots, and San Joaquin Valley> Kern= heavy, 10-25 per sq m in Shandon area. Some controls applied. (C.S. Papp).

WASHINGTON - District> County= grasshopper status: SE> Asotin at Asotin to EC> Franklin at Pasco= Melanoplus sanguinipes, Melanoplus femurrubrum, and Melanoplus bivittatus heavy in Snake River breaks, 2nd instar to adults 50+ per 0.8 sq m, no mating or egg laying noted; C> Okanogan, EC> Douglas and Grant and NE> Spokane= heavy in many rangeland areas, migration into croplands increased noticeably in eastern sections; C> Klickitat, Yakima, and Okanogan= cooperative programs underway in small portion of infested area, treatments planned for about 140,000 ha. (D. Jackson).

UTAH - Grasshopper problems increased. Heavy infestation moved into alfalfa fields and infestation light in grain crops. District> County= status: N> Tooele= 7,689.1 ha in Skull Valley and 404.7 ha south of Tooele scheduled for control, Box Elder= 14,164 ha infested in Promontory Point, Snowville, and Hansel Valley areas, and Davis= 8,093.7 ha infested on Antelope Island; S> Iron and Washington= infested area around Enterprise, June 22; and C> Millard= 121 ha treated for control near Delta (T. Crowe) and Sanpete= moved from rangeland and into alfalfa stubble fields in Gunnison area (R.S. Roberts, T. Reeve).

NEW MEXICO - District> County= grasshopper status on alfalfa: NW> Valencia= ranged 20-74 per 25 sweeps, problem in eastern area east of river and Bosque Farms and Los Lunas areas. (G.L. Nielsen).

NEBRASKA - District> County= Mostly M. differentialis, M. bivittatus, and M. femurrubrum; most nymphs in 2nd to 4th instar. Nymphal ranges (averages) per 0.8 sq m: 10-35 (22) on rangeland in 8 sites, 5-6 (5.5) on alfalfa in 2 sites, nymphal range not reported (2.5) in roadside ditches, range not reported (10) in border of harvested alfalfa field (Thomas, Kozoil); NE> Antelope= range not reported (30) in fencerows in corners of center pivot irrigated fields (Witkowski), Cedar= 1-5 (4) in field margins and roadside ditches in 5 sites (Vawser); and E> Platte= 1-6 (3.7) in pastures and roadside ditches (Voboril).

NORTH DAKOTA - Mainly M. bivittatus, M. sanguinipes, and Melanoplus packardii. District> County= status: SC> Morton, Grant, and SW> Slope= development ranged 1st to 3rd instar, mostly 2nd, with 5th instars in 1 area, counts per 0.8 sq m from less than 1 up to 30 (averaged 8) in field margins and from less than 1 up to 12 (averaged 4) in fields; SC> Morton= up to 20 per 0.8 sq m, marginal damage light on oats. (Brandvik).

MINNESOTA - Mostly M. differentialis, M. bivittatus, and M. femurrubrum. Hatch underway in roadsides and alfalfa fields, 1st and 2nd instar nymphs in most fields. Area> averages per 0.8 sq m in 66 fields and 19 counties: NW, SW, and EC> less than 1, and WC> 2. (D. Sreenivasam).

GYPSY MOTH (Lymantria dispar) - MAINE - Area> status: S>, C>, and E> populations heavier and healthier than anticipated. Larvae nearly 5 cm long, almost full grown. Defoliation very heavy in many areas, especially on oak and poplar. County= locations of some "hotspots": York= at Shapleigh; Cumberland= at New Gloucester; Kennebec= at Waterville and Clinton; Penobscot= at Veazie and old town areas. Defoliation more widespread than in early 1960's. (A. Gall).

JAPANESE BEETLE (Popillia japonica) - KENTUCKY - District> County= adult status: N> Boone= began to emerge in northern area June 19. Currently damaged fruit trees in area. Significant increase around Japanese beetle traps. (V. Johnson). NORTH CAROLINA - District> County= status on soybeans: Northern Coastal> Washington and Martin, and Southern Coastal> Sampson= damage light, defoliation 5-10%, occurred in spots up to 0.10 ha in size; no treatments reported, population increasing. (T.N. Hunt).

RANGELAND CATERPILLAR (Hemileuca oliviae) - NEW MEXICO - Mostly 3rd instar larvae in northeastern and south-central rangeland areas. District> County= number of hectares of rangeland planned for controls: NE> Union, Colfax, and Mora= 38,445 ha and Colfax and Harding= 32,375 ha for this species and grasshoppers. (G.L. Nielsen).

SCREWWORM (Cochliomyia hominivorax) - No cases reported from continental United States June 3-9. Total of 645 cases confirmed in portion of eradication zone in Republic of Mexico May 27 to June 9. Total of 409 cases reported in Mexico south of eradication zone. Number of sterile flies released June 3-9 totaled 52,329,100 as follows: Texas 28,365,100; New Mexico 5,040,000; and Arizona 18,924,000. (J.E. Novy, M.E. Meadows).

WEST INDIAN SUGARCANE ROOT BORER (Diaprepes abbreviatus) - FLORIDA - Extension of previous infestation. District> County= adults on Bucida buceras (black olive): S> Broward= on leaves of 1 of 10 plants at residence at Ft. Lauderdale, week of June 22. (R. Gaskalla, C. Culbreth).

HAWAII PEST REPORT

General Vegetables - Infestations and damage by LEAFMINER FLIES (Liriomyza spp.) moderate to heavy on 0.6 ha of green onion at Waianae Valley, Oahu, week ending June 22, and currently on 2.8 ha of bearing tomatoes at Pulehu, Omapio, and Kihei, Maui. CARMINE SPIDER MITE (Tetranychus cinnabarinus) moderate to heavy on 0.3 ha of pole beans at Waimanalo, Oahu, week ending June 22. (C.K. Otsuka et al.).

Ornamentals - Infestations of a WHITEFLY (Aleurodicus dispersus) noted 1.6 km apart on sea grape and mango at Kailua, Oahu, week ending June 22, indicated presence for several months in above community. Infestations heavy on several Hibiscus tiliaceus (hau) trees and several dozen seagrape trees in park at Ewa Beach, June 8, 1979. H. tiliaceus new host record. Infestations seemed confined to 2-block area. Farthest western location on Oahu. Infestations of a WHITEFLY (Paraleyrodes naranjae) and HIBISCUS WHITEFLY (Pealius hibisci) also heavy on hau trees at Ewa Beach. Infestations also observed on windward side of Oahu at Kailua on false kamani for new locality record. (L.M. Nakahara).

Snail Pest - Heavy May showers caused outbreaks of GIANT AFRICAN SNAIL (Achatina fulica) at Kahaluu (Kona), Hawaii Island, during May. Activity light over most of Kauai Island where drier conditions prevailed. (E.R. Yoshioka, D.T. Sugawa).

DETECTION

NEW COUNTY RECORDS

INSECTS

A DIASPIDID SCALE (Quadraspidiotus taxodii) - FLORIDA - Polk. (p. 448).

A DIASPIDID SCALE (Pseudaulacaspis cockerelli) - FLORIDA - District> County= collection data on Magnolia grandiflora (southern magnolia): NW> Gadsden= adults infested lower side of leaves at State park, June 5, 1979. Collected by H. Collins and Q. Anglin. Determined by A.B. Hamon. (H. Collins, Q. Anglin). Native plants growing in the wild. (Q. Anglin).

PUTNAM SCALE (Diaspidiotus ancylus) - FLORIDA - District> County= collection data on Ilex glabra (gallberry) plant: NW> Liberty= adults lightly infested stems and roots near Telogia, February 15, 1979. Collected by J. Felty. Determined by A.B. Hamon. Plants growing in the wild. (J. Felty).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NEVADA - District> County= collection data from pheromone trap: NE> Lander= on power pole at Battle Mountain, June 21, 1979, by R. Bradley and J. O'Brien. Determined by R.C. Bechtel. (R.C. Bechtel).

A WHITEFLY (Aleuroplatus semiplumosus) - FLORIDA - District> County= collection data on Nyssa ogeche (Ogeechee tupelo): NW> Liberty= immatures infested leaves along roadside near Sumatra, June 6, 1979. Collected by H. Collins and Q. Anglin. Determined by A.B. Hamon. (H. Collins, Q. Anglin).

CORRECTIONS

CPPR 4(23):428 - BENEFICIAL ORGANISMS AND THEIR ENEMIES - "A MYMARID WASP (Anaphes flavipes)... NEW JERSEY - N> Hunterdon= 100% in ...." should read "A MYMARID WASP (Anaphes flavipes)... NEW JERSEY - N> Hunterdon= 69% in ...." (V.E. Montgomery).

LIGHT TRAP COLLECTIONS

	Temperature °C	Precipitation MM	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Maduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
CALIFORNIA																							
Bellota 6/26			BL						1									6	3				
Manteca 6/26	13-31		BL				1											8	16			1	
FLORIDA																							
Gainesville 6/21-27			BL				19												3	1	3		
INDIANA (Counties)																							
Lagrange 6/21-27			BL	12					0							16	13			0			
Tippecanoe 6/21-27			BL						0							9	9			0			
KENTUCKY																							
Fayette 6/21-26			BL	9												3	8	80		1	6		
Hickman 6/21-27			BL	1												11		0		0	2		
MINNESOTA																							
Fergus Falls 6/20-26	6-27	39.4	BL	9												30	28	167					
Le Sueur 6/20-26	10-31	17.8	BL	101												124	43	1400				1	
MISSISSIPPI																							
Stoneville 6/22-28	18-32	2.31	2BL	20	2			10	14	43							47	410		3	226	6	
NEBRASKA (County)																							
Dixon 6/21-25			BL	33		1										750		484					
OHIO (Counties)																							
Putnam 6/19-25			2BL	4	1											28		38					
Wayne 6/21-27			3BL	38												84	11	350			1		
TENNESSEE																							
Selmer 6/21-28			BL	4											3	4	6	3		1			
Springhill 6/25-28			BL													6		40					
WEST VIRGINIA (Counties)																							
Monroe 6/25			BL																			2	
Putnam 6/22-24			BL	9														56					
WISCONSIN																							
Lancaster 6/20-27			BL	4												0	4	56					
Mazomanie 6/20-27			BL	4												28	4	52					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Mycosphaerella sp. a fungi Det. R. Hashimoto	imperfect	on leaves of Dracaena plants	Costa Rica	Los Angeles	CA
Uromyces viciae-fabae (Pers.) Schroet. a rust Det. H.T. Eng	uredial	on fava beans from baggage	Italy	Kennedy Airport	NY
Acrolepia assectella (Zeller) leek moth Det. V. Blackburn	larval	Allium cut flowers from cargo	Netherlands	Boston	MA
Chilodes maritima (Tauscher) a noctuid moth Det. J.B. Heppner	adult	with reed mats from cargo	Hungary	Port Everglades	FL
Pissodes pini (Linnaeus) a weevil Det. D. Whitehead	adult	in wood crates of coils	France	Philadelphia	USA
Stenoma catenifer Walsingham avocado seed moth Det. D.M. Weisman	larval	in avocados from baggage	Guatemala	Los Angeles	CA
Tomicus piniperda (Linnaeus) a scolytid beetle Det. D.M. Anderson	adult	in wood bracing in container van	France	Jacksonville	FL
Zeuzera sp. a cossid moth Det. J.B. Heppner	pupal	in wood pallets with books	Italy	New York	NJ

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

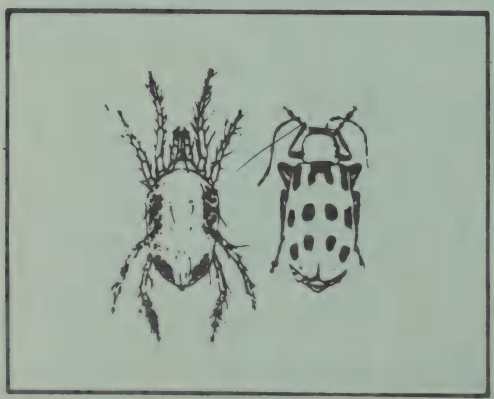
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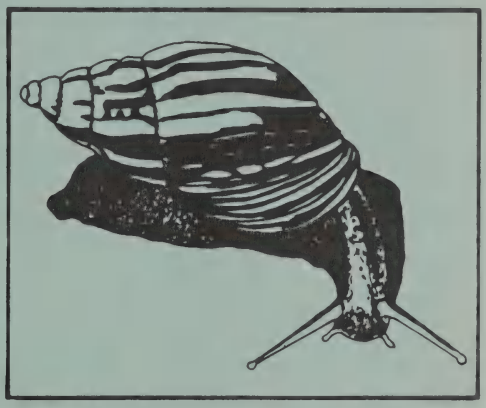
Cooperative PLANT PEST REPORT

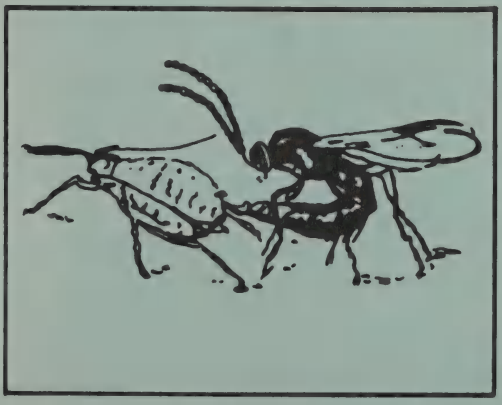
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Animal and Plant Health Inspection Service

July 13, 1979
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER injury to corn 50% or more in parts of central and northeastern Nebraska, eastern West Virginia and central Maryland. Pupulation heavy enough in Illinois to pose second generation threat. (p. 459-460).

ARMYWORM adults very heavy in southeastern Nebraska. (p. 462 and 473).

PHYTOPHTHORA ROT appeared on soybeans in Kansas and Illinois. (p. 464).

Detection

A PHYLLOXERA is new for Idaho. (p. 469).

For new county records see page 472.

Some First Occurrences of the Season

SOUTHERN ANTHRACNOSE in Kansas.

Special Report

Grasshopper Status and Outlook on Field Crops in the West - 1979. (p. 475-476). Damage could be heavy on succulent crops this summer and fall with heavy egg densities this winter where conditions continue favorable.

Reports in this issue are for the week ending July 6 unless otherwise indicated.

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Grasshopper Status and Outlook on Field Crops in the West - 1979....475

DISEASES

COMMON SMUT (Ustilago maydis) - KANSAS - District> County= prevalence on corn: NE> Doniphan= trace in 1 field. (T. Sim, IV).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - INDIANA - Survey on corn June 24-30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	none seen		tassel
NC> Kosciusko	none seen		tassel
NC> Elkhart	none seen		tassel
NE> Huntington	none seen		12 leaves emerged
NE> Noble	none seen		tassel
NE> Steuben	none seen		tassel
NE> De Kalb	none seen		tassel
NE> Allen	none seen		silks emerged
NE> Adams	none seen		tassel
EC> Jay	none seen		tassel
EC> Blackford	none seen		silks emerged
EC> Blackford	66	5	tassel
C> Grant	none seen		silks emerged

HOLCUS SPOT (Pseudomonas syringae) - WEST VIRGINIA - District> County= prevalence/severity on corn: E> Jefferson= 90%/trace in 4.0-ha field June 14 and NW> Pleasants= trace/no data in 1 field June 26. (C. Stuart).

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - District> County= prevalence on sorghum: NE> Brown and Doniphan= trace in 1 field each. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence on corn: NE> Pottawatomie= 1% in 1 field and Doniphan= trace in 1 field. Prevalence on sorghum (T. Sim, IV):

District> County	Prevalence (%)
NE> Pottawatomie	trace with some red leaf
NE> Jackson	1%
NE> Atchison	trace

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEBRASKA - Adult activity decreased and fresh egg masses hard to find in eastern area. District> County= status in corn fields: C> Hall, Buffalo, and Howard, S> Kearney, and E> Merrick and Nance= egg masses, larvae, and/or "shotholes" on 2-37% (averaged 8%) of plants in 127 of 174 fields (Monke, Raun); C> Buffalo= egg masses, larvae, and/or "shotholes" on up to 80% (averaged 50+%) of plants in 12 fields (Peters, Schmidt); SE> Nemaha= "shotholes" on average of 5% of plants in 2 of 11 fields (Shires); NE> Cedar and Pierce= larvae economic, infested 44-84% (averaged 60%) of plants in 4 fields (Jarvi). MINNESOTA - First reports. Egg masses averaged 3 per 100 corn plants, larvae trace (mostly 1st instar), only SE district reported 2nd instar larvae. (D. Sreenivasam).

IOWA - District> County= European corn borer adult averages per night in blacklight traps June 19-25: NC> Hancock= 25 at Kanawha; SC> Ringgold= 90 at Beaconsfield, and Henry= 60 at Mount Pleasant. (F. Pearsall, L.H. Townsend). June 26 to July 2: NC> Hancock at Kanawha= 100, SC> Ringgold at Beaconsfield= 140, and NE> Dubuque at Dubuque= 20. Egg masses in number of fields (f) and percent feeding damage in number of fields (f) for each county June 25-29: NC> Butler and Floyd= none in 2f and 1% in 1f, Wright= none in 2f and 0% in 2f, Humboldt= no data and 7% in 1f; NW> Pocahontas= none in 2f and 1% in 1f; NC> Hancock= none in 1f and 0% in 1f (L. Dersch); NW> Clay and Dickinson= none in 1f and 0% in 1f (W. Glover); SW> Page= none in 2f (2nd instar larvae on 5% and 24% of plants) and no data, and none in 4f, (infested 0-4% of plants) and no data, and Taylor= 0 and 1 per 100 plants in 2f (2nd instar on 14% and 13%) and no data (J. Crouch). Current status: EC> Johnson= larvae 2 per plant and whorl feeding 50% in 30-ha field and Scott= larvae 3-4 per plant and whorl feeding 80% in 1 field. (L. Townsend).

ILLINOIS - Area> European corn borer status on corn: Southern one-third> 3rd to 5th instars present with very little stalk entry and; N> several fields treated, some egg laying still occurred. Populations much lighter overall than same time in 1978 but heavy enough to pose second generation threat. (K. Black).

WISCONSIN - Heavy populations apparent on corn. District> County= status on corn: SW> Sauk= infested up to 88% of corn [shoulder high] near Spring Green, 35-50% of corn [waist high] near Prairie Du Sac, Iowa, and Grant; and SC> Dane and Rock= 8-26% of plants [132 cm extended leaf]. Light in fields shorter than waist high and absent in some very late fields. Larvae most commonly 1st and 2nd instar in southern counties. Most larvae still feeding in whorls and modified degree day accumulation below 611.1 (base 10°C) indicate controls still effective if applied next period. (O.L. Lovett).

MICHIGAN - District> County= European corn borer status: EC> Saginaw= light; statewide> heavy in scattered fields. First generation larvae too deep in whorl to be treated in most fields. Second generation eggs should appear at 833.3 (base 10°C). (R. Ruppel). OHIO - First generation adult flights declined, see p. 473. District> County= larvae on corn: C> Franklin= 8%, Delaware= 6%, Knox= 10% and 12%, Morrow= 14% and 6%, Licking= 66%, and Fairfield= 20%, and SE> Perry= 8%. (G.P. Walker).

WEST VIRGINIA - District> County= European corn borer damage to corn: E> Jefferson= 10-60%, several fields with 50+% damage treated (S. Washburn). MARYLAND - Adult catches very light, fewer than 2-6 per night (between 1st and 2nd brood). Area> damage levels: C> 30-100% and E> light. (J.L. Hellman). NEW YORK - District> County= status on sweet corn: E> Albany= major concern, counts very heavy (Cuniglio) and Lake Erie region> heavier than usual (Rutkowski).

STALK BORER (Papaipema nebris) - OHIO - District> County= larvae and damage in corn border rows: C> Knox= 1% and 36% and Franklin= 32% and SE> Perry= 6%; damage in interior of fields undetectable. (G.P. Walker).

SANDHILL CUTWORM (Euxoa detersa) - IOWA - District> County= status: SE> Lee= severely infested 6-ha corn field, stand reductions about 85% on initial planting and first replanting. (L. Townsend).

CORN ROOTWORMS (Diabrotica spp.) - NEBRASKA - District> County= larval range (average) per corn plant: S> Kearney, C> Hall, Buffalo, Howard, and E> Merrick

460 and Nance= 0.1-11.7 (1.46) in 56 of 107 fields. (Monke, Raun). ILLINOIS - District> County= Diabrotica spp. status: E> Champaign= some 3rd instars destroyed seedling sweet corn in plot planted as trap crop in 1978. Damage severe, about 50% of plants destroyed. (K. Black).

CORN LEAF APHID (Rhopalosiphum maidis) - ILLINOIS - Area> status on corn: Southern one-half> usually fewer than 20 aphids each on 50% of whorls in many fields, particularly farther south. District> County= status: SE> Jefferson= 20-30 per whorl on almost all corn [127-152 cm tall] in 1 field, good potential for damaging buildup due to most fields in this area being 102-152 cm extended leaf height. (K. Black). MARYLAND - Area> status on corn: C> populations slightly above normal, damaged 2-20% of plants on about 3% of acreage. (J.L. Hellman).

CORN ROOT APHID (Anuraphis maidiradicis) - NEBRASKA - District> County= damage to 3 corn fields: S> Phelps= stand reduction 95-100% in isolated spots, totaled about 3%. (Peters, Cooksley).

CHINCH BUG (Blissus leucopterus leucopterus) - NEBRASKA - Migrated from small grains and damaged some corn and sorghum in southeastern area. (Miller). District> County= status: E> Lancaster= adults 1.0, 1st instar nymphs 31.47, 2nd instar 18.26, 3rd instar 30.65, 4th instar 22.28, 5th instar nymphs 13.58, and eggs averaged 0 per 0.03 row m for 12 samples from 4.9 row m between 2 wheat rows in southern area; many adults and later instar nymphs moved out of wheat into 60 border rows of adjacent sorghum field (Kindler, Ahmad); SE> Nemaha= moved into 18 border rows in 1 of 11 corn fields (Shires); and S> Kearney= 1st and 2nd instar nymphs trace in 1 wheat field (Peters, Cooksley).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - SOUTH DAKOTA - District> prevalence on wheat: NC, NE, C, and SC> trace. District> County= prevalence/ severity on wheat cultivar June 29: C> Hyde= 25%/trace on WS 1809, 50%/trace on Waldron, 75%/1-2% on Proday, 99%/1-2% on Era, 25%/trace on Eureka, 10%/trace on Olaf, trace/trace on Len, and trace/trace on Aim at Highmore and NC> Spink= trace/ trace on Waldron, trace/trace on Marquis, and 99%/trace to 50% on Baart at Redfield. (V.L. Jons). IOWA - District> County= prevalence/severity on wheat [milk to dough] June 9-22: EC> Muscatine and SE> Louisa and Des Moines= 50-99%/ trace to 5%; SW> Pottawattamie= 10-99%/trace to 5% and Mills and Fremont= 90%/trace to 10%; and WC> Woodbury= trace to 75%/trace to 5%. (D.J. Williams).

OAT CROWN RUST (Puccinia coronata) - SOUTH DAKOTA - Area> status on oats June 30: NE> trace in scattered fields. (V.L. Jons). IOWA - District> County= prevalence/severity on oats [flower to milk] June 9-22: SW> Pottawattamie and Mills and WC> Harrison= trace/trace. (D.J. Williams).

OAT LOOSE SMUT (Ustilago avenae) - IOWA - District> County= prevalence on oats [flower to milk] June 9-22: SW> Mills and Montgomery and SE> Des Moines and Louisa= trace. (D.J. Williams).

LOOSE SMUT (Ustilago tritici) - District> County= prevalence on spring wheat [heading] (2 fields per county): SOUTH DAKOTA - NC> Spink and Brown and C> Sully, Hand, and Beadle= 1-2% and NORTH DAKOTA - SC> Emmons= 1-2%. (V.L. Jons).

SPECKLED LEAF BLOTCH (Septoria tritici) - SOUTH DAKOTA - District> status on winter wheat week of June 25: C, WC, and SC> low levels in most fields. (V.L. Jons). IOWA - District> County= prevalence/severity on wheat [milk to dough] fields June 9-22: SW> Montgomery= trace to 10%/trace and Pottawattamie, Mills, and WC> Harrison= trace to 90%/trace to 5%. (D.J. Williams).

TAN SPOT (Pyrenophora trichostoma) - SOUTH DAKOTA - District> status on spring wheat [boot to flowering] week of June 25: NC, NE, C, WC, and SC> prevalent in most fields. (V.L. Jons). NORTH DAKOTA - District> status on spring wheat [joint to head] week of June 25: SC> prevalent in most fields. (V.L. Jons).

HALO BLIGHT (Pseudomonas coronafaciens) - IOWA - District> County= prevalence/severity on oats [flower to milk] June 9-22: NW> Plymouth and O'Brien and WC> Monona and Woodbury= 30-70%/trace to 10% and Harrison and SW> Pottawattamie and Mills= trace to 10%/trace; and SE> Jefferson and Wapello and SC> Lucas= trace to 20%/trace to 5%. (D.J. Williams).

BARLEY YELLOW DWARF VIRUS - IOWA - District> County= prevalence of red leaf on oats [flower to milk] June 9-22: NW> Plymouth and WC> Woodbury= trace to 5% and Harrison= 3-10 and SW> Pottawattamie, Mills, and Montgomery= 3-10%. (D.J. Williams).

INSECTS

ASTER LEAFHOPPER (Macrosteles fascifrons) - WISCONSIN - District> County= counts per sweep of oats: SE> Kenosha= 1, heaviest observed this season. (O.L. Lovett).

CHINCH BUG (Blissus leucopterus leucopterus) - NEBRASKA - See CHINCH BUG (Blissus leucopterus leucopterus), p. 461.

TURF, PASTURES, RANGELAND

INSECTS

ARMYWORM (Pseudaletia unipuncta) - NEBRASKA - Area> adult status: E> activity still very heavy; heaviest in east-central area, adults 35,000+ in blacklight trap June 27 to July 3 in Hamilton County. (Cranfill, Miller).

BLUEGRASS BILLBUG (Sphenophorus parvulus) - NEBRASKA - District> County= larvae (average) per 0.09 sq m in bluegrass plots: E> Lancaster= 5.25-44.25 (17.7). (Kindler).

FORAGE LEGUMES

DISEASES

LEPTO LEAF SPOT (Leptosphaerulina briosiana) - KANSAS - District> County= prevalence on alfalfa: NE> Jackson and Brown= 100% in 1 field each, defoliation heavy in both fields. (T. Sim, IV).

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - District> County= prevalence on alfalfa: NE> Jackson= about 5% in 1 field. (T. Sim, IV).

COMMON LEAF SPOT (Pseudopeziza medicaginis) - KANSAS - District> County= prevalence on alfalfa: NE> Jackson= 30% in 1 field. (T. Sim, IV).

SOUTHERN ANTHRACNOSE (Colletotrichum trifolii) - KANSAS - First of season. District> County= prevalence/severity on alfalfa stems: NE> Pottawatomie= 5%/less than 1% destroyed in 1 field, June 26. (T. Sim, IV).

INSECTS

ALFALFA WEEVIL (Hypera postica) - UTAH - District> County= status on alfalfa: N> Cache= eggs laid in fields up to late June, larvae moderate in some second growth fields (D.W. Davis); S> Iron= damage moderate (L. Esplin); and E> San Juan= fields sprayed to control infestations in second growth and Wasatch= more severe than expected (G.F. Knowlton).

WISCONSIN - Area> status on alfalfa: Few northern counties> larvae still damaged alfalfa regrowth, and southern counties> new adults confirmed end of 1979 infestation in this area. (O.L. Lovett).

ALFALFA LOOPER (Autographa californica) - WASHINGTON - District> County= adults trapped in forage legumes: W> Whatcom, Skagit, and Snohomish= totaled 1,686 with 140 per trap in old traps and 356 with 30 per trap in new traps and Milton Freewater and Walla Walla areas> totaled 2,384 with 183 per trap week ending June 12, and totaled 3,180 with 345 per trap week ending June 19. (P. Eide, T. Darnell).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= larvae and adults per 100 sweeps of alfalfa: C> Maricopa= 4-60 and 4 and SW> Yuma= 0 and 30-100. (W. Kendall et al.).

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - MARYLAND - Area> status on alfalfa: C> first mines of second generation evident in 30% of hectares, about 200 ha sprayed to date. (J.L. Hellman).

PEA APHID (Acyrthosiphon pisum) - NEVADA - District> County= range (average) per sweep of alfalfa: W> Pershing= 19.5-732 (136.84) at Lovelock; Humboldt= 12.4-408.1 (100.7) at Orovada and vicinity (M. Spencer), 0-160 (38) on 200+ ha of seed alfalfa in Jungo area (L. Stitt), Churchill and Lyon and S> Mineral= increased sharply on hay alfalfa past 10 days (R.C. Bechtel); Lyon= from 30-40 in lightly infested hay alfalfa to 400-500+ in heavily infested fields in Mason Valley (D. Horton). OHIO - District> County= counts per sweep of alfalfa: C> Fairfield= 6.6 and Knox= 1.9. (G.P. Walker).

SPOTTED ALFALFA APHID (Therioaphis maculata) - UTAH - District> County= status on alfalfa: C> Millard= infested nearly all fields in western area. (L. Haskell). WISCONSIN - District> County= counts per 25 sweeps of alfalfa: SE> Walworth= 10 in 1 field. (O.L. Lovett).

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - Moderate to heavy in southern area, damaging numbers could develop in early third growth and late second growth. District> County= status on alfalfa: SW> Sauk= adults 1 per sweep and SE> Walworth= 10 nymphs per sweep. (O.L. Lovett). OHIO - District> County= adults and nymphs per sweep of alfalfa: C> Fairfield= 1.8 and Knox= 0.7. (G.P. Walker). WEST VIRGINIA - District> County= nymphs and adults per 100 sweeps of alfalfa [18-64 cm tall]: E> Jefferson= 0-20, damage slight. (S. Washburn).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: C> Maricopa= 0 and 14-90 and Pinal= 4 and 440 and SW> Yuma= 0 and 3-9. (W. Kendall et al.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: C> Maricopa= 20-110 and 19-300 and Pinal= 20 and 76; SE> Cochise= 0 and 50-75; and SW> Yuma= 0 and 20-150. (W. Kendall et al.).

GRASSHOPPERS - ILLINOIS - Still serious threat over most of State. Some areas treated, still heavy in many grassy areas and movement into field crops continued. Heavy in many alfalfa or mixed hay fields. Adults of some species in southern areas. (K. Black).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - KANSAS - District> County= prevalence on soybeans: EC> Lyon= 1% in 1 field. (T. Sim, IV).
INDIANA - Survey on soybeans June 24-30 (R.A. Schall):

District> County	Prevalence (%)	Host stage
NC> Wabash	none seen	4 nodes
NC> Kosciusko	none seen	3 nodes
NC> Elkhart	none seen	3 nodes
NE> Huntington	none seen	unifoliolate leaf
NE> Noble	none seen	3 nodes
NE> Steuben	none seen	3 nodes
NE> De Kalb	none seen	first trifoliolate leaf
NE> Allen	none seen	4 nodes
NE> Adams	none seen	3 nodes
EC> Jay	none seen	unifoliolate leaf
EC> Blackford	trace	4 nodes
C> Grant	trace	5 nodes

RHIZOCTONIA ROOT AND STEM ROT (Rhizoctonia solani) - KANSAS - District> County= prevalence on soybeans: EC> Linn= trace in 1 field. (T. Sim, IV).

SOYBEAN BROWN SPOT (Septoria glycines) - INDIANA - Survey on soybeans June 24-30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	none seen		4 nodes
NC> Kosciusko	none seen		3 nodes
NC> Elkhart	none seen		3 nodes
NE> Huntington	none seen		unifoliolate leaf
NE> Noble	none seen		3 nodes
NE> Steuben	none seen		3 nodes
NE> De Kalb	none seen		first trifoliolate leaf
NE> Allen	none seen		4 nodes
NE> Adams	none seen		3 nodes
EC> Jay	none seen		unifoliolate leaf
EC> Blackford	30	5	4 nodes
C> Grant	10	2	5 nodes

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - INDIANA - Survey on soybeans June 24-30 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Wabash	none seen		4 nodes
NC> Kosciusko	none seen		3 nodes
NC> Elkhart	none seen		3 nodes
NE> Huntington	none seen		unifoliolate leaf
NE> Noble	trace	trace	3 nodes
NE> Steuben	none seen		3 nodes
NE> De Kalb	none seen		first trifoliolate leaf
NE> Allen	none seen		4 nodes
NE> Adams	none seen		3 nodes
EC> Jay	none seen		unifoliolate leaf
EC> Blackford	trace	1	4 nodes
C> Grant	92	trace	5 nodes

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - OHIO - Larvae and adults collected in several fields. Population density appeared heaviest south of Interstate Highway 70. District> County= larvae and adults per 150 sweeps of soybeans: C> Knox= 0 and 0, Morrow= 0 and 1 and 0 and 4 in 2 fields, Delaware= 0 and 0, Fairfield= 11 and 1, and Franklin= 0 and 0 and SE> Perry= 20 and 5. (G.P. Walker). MARYLAND - District> status on soybeans: Eastern Shore> damage ranged 6-38%. Pupation underway in all areas, but peak not expected for another week or more. No controls to date. (J.L. Hellman).

GREEN CLOVERWORM (Plathypena scabra) - OHIO - Larvae (some nearly full-grown) in most fields surveyed. District> County= counts per 150 sweeps of soybeans: C> Knox= 9, Morrow= 1 each in 2 fields, Delaware= 1, Fairfield= 5, and Franklin= 0 and SE> Perry= 6. (G.P. Walker). Pupation and appearance of second generation adults soon. (R.B. Hammond).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status on soybeans: NW> Gadsden= first pupae at Quincy June 29 and first adult seen July 1. (D.C. Herzog).

POTATO LEAFHOPPER (Empoasca fabae) - OHIO - Adults and/or nymphs in every field surveyed. District> County= counts per 150 sweeps of soybeans: C> Knox= 18, Morrow= 3 and 30 in 2 fields, Delaware= 31, Fairfield= 100, and Franklin= 1 and SE> Perry= 16. (G.P. Walker).

GRASSHOPPERS - ARKANSAS - District> County= Melanoplus bivittatus on soybeans: SW> Little River= mostly large nymphs fed heavily around edges of some fields, spot treatment of some fields made, damage heavy for several rows into field. (A.J. Muller).

PEANUTS

INSECTS

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - FLORIDA - District> County= status on peanuts: NW> Jackson= rainfall of 2+ cm reduced or eliminated heavy populations in Marianna area. (J.E. Arnold).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - SOUTH CAROLINA - Area> status on cotton: Savannah Valley Region> infestations spotty, square damage up to 25-30%. (D.R. Johnson).

BOLLWORMS (Heliothis spp.) - ARKANSAS - BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) larvae and adults generally light in southeastern area. District> County= status on cotton: SE> Ashley= eggs 17 per 17 row m, Chicot= adults averaged 2 per night per trap, and Jefferson= adults fewer than 3 per night per trap (M. Wall); C> Pulaski= 20 tobacco budworm and 0 bollworm adults in pheromone trap baited with virelure and zealure, 1 adult of each species in adjacent light trap (G. Barnes); and NE area> pressure relatively light, virtually no fields reached treatment level (J. Kimbrough).

SOUTH CAROLINA - H. zea and H. virescens status on cotton: egg counts and infestations decreased during past period with eggs 5-10 per 100 plants. H. virescens pheromone trap catches decreased, 2-3 per trap. (D.R. Johnson).

TARNISHED PLANT BUG (Lygus lineolaris) - ARKANSAS - Nymphs relatively heavy, caused concern to cotton growers in southeastern area, especially in fields with squaring problems. District> County= nymphal counts: SE> Ashley= 31 per 9.1 row m, Drew= 50 per 7.3 row m, and Lincoln= 75 per 9.1 row m. (M. Wall).

TOBACCO

INSECTS

TOBACCO HORNWORM (Manduca sexta) - SOUTH CAROLINA - Area> larval status on tobacco: Pee Dee region> increased but numbers still light. (D.G. Manley).

GREEN PEACH APHID (Myzus persicae) - NORTH CAROLINA - Still major pest of tobacco. District> County= tobacco fields at threshold: Central Piedmont> Wake; Central Coastal> Lenoir; and Southern Coastal> Bladen= 16% of 223 fields compared with 2% of 290 fields and Sampson= 3 of 15 fields compared to 2 of 18 fields June 25-28; and Northern Coastal> Martin and Washington= decreased from 12% June 25-28 to 9% of 53 fields due to treatment. (T.N. Hunt).

MISCELLANEOUS FIELD CROPS

INSECTS

A CECIDOMYIID MIDGE (Contarinia schulzi) - MINNESOTA - District> County= status on sunflowers: NW> Norman= heavier than average populations expected if present weather persists for few weeks. Increase most likely near U.S. Highway 75 in western section. (D. Sreenivasam).

POTATOES, TOMATOES, PEPPERS

DISEASES

ALTERNARIA EARLY BLIGHT (Alternaria solani) - WEST VIRGINIA - District> County= prevalence on potato variety in number of hectares (1 field each variety): SW> Nicholas= light (10%) on 'Superior' in 2 ha, trace (2-3%) on 'Kathadin' in 0.8 ha, and none on 'Kennebec' in 2 ha. (R.L. Williams).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - WISCONSIN - Heavy on peppers and potatoes. Area> status: Central Sands> fresh eggs on 5-10% of green pepper plants in 1 field; SC district> Sauk County= 2nd to 5th instar larvae in 10% of vines in early potato fields in Spring Green area, damage ranged from wilted tips to hollow vines, adults in several fields where vines covered all of row. (O.L. Lovett). WEST VIRGINIA - District> County= status on potatoes: SW> Nicholas= larvae infested 10% of plants in unsprayed fields. (J.D. Hacker).

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - Area> counts per 25 sweeps of potatoes: Central Sands and SC> Sauk in Spring Green area= 3. (O.L. Lovett).

GREEN PEACH APHID (Myzus persicae) - WISCONSIN - Small colonies built up on green peppers in Central Sands. District> County= counts per green pepper leaf: C> Waushara= 1-3 on bottom leaves. (O.L. Lovett).

BEANS AND PEAS

DISEASES

PEA ROOT ROT (Aphanomyces euteiches) - WISCONSIN - Area> prevalence/estimated yield loss for this rot and a PEA ROOT ROT (Fusarium solani f. pisi) on peas: Statewide> 23%/13% in 45 of 76 fields, 100%/100% in some fields. (O.L. Lovett).

INSECTS

PEA APHID (Acyrthosiphon pisum) - WISCONSIN - Gradually increased, few more pea fields required treatments. District> County= status on peas: EC> Fond du Lac and SC> Dodge= 75+ per sweep, chemical controls started and Columbia, SW> Sauk, and C> Waushara= 15-35 per sweep. (O.L. Lovett).

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - Area> County= counts per 25 sweeps of beans: Central Sands and SC> Sauk in Spring Green area= 3. (O.L. Lovett).

COLE CROPS

INSECTS

IMPORTED CABBAGEWORM (Pieris rapae) - NEW YORK - Area> status on vegetables: C> building up, activity increased sharply June 28 to July 1, flights and egg laying evident (Muka); W District> Ontario and Yates Counties= adults heavy June 29, eggs increased sharply up to 30 per 40 plants in 1 field (Pedersen).

CABBAGE MAGGOT (Hylemya brassicae) - NEW YORK - District> County= status on vegetables: W> Ontario and Yates= adults increased, second brood expected to peak first or second week of July (Pedersen); Lake Erie region> second generation emergence began June 26, eggs 1-2 on about 10% of plants in Erie and Niagara Counties. (Rutkowski).

CUCURBITS

INSECTS

PICKLEWORM (Diaphania nitidalis) - NORTH CAROLINA - Larvae early. District> County= status: Southern Coastal> Columbus= larvae reported June 21. Expected to rapidly expand northward in commercial cucumbers and squash. (K.A. Sorensen).

GENERAL VEGETABLES

INSECTS

ASTER LEAFHOPPER (Macrosteles fascifrons) - WISCONSIN - District> County= counts per sweep of oats: SE> Kenosha= 1, heaviest observed this season. (O.L. Lovett).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= adults trapped: EC> Grant and Adams= totaled 39 and average 0.5 per trap in 79 traps in commercial orchards near Quincy, Ephrata, and Royal Slope area week ending June 30; and Grant= totaled 58 and averaged 2.9 per trap in 20 traps placed in backyard apple and crabapple trees (R. Hunter) and NE> Spokane= currently totaled 162, averaged 2.1 per trap, and ranged 0-8 at Green Bluff (E. Kupferman). WISCONSIN - District> County= adults in pheromone traps June 22-29: SE> Walworth= 2, SC> Dane= 22 and 1 in 2 traps, SW> Richland= 1, and NW> Barron= 0 in 2 sites. (O.L. Lovett). OHIO - District> County= status: NE> Wayne and NC> Ashland= adults 27 in 4 pheromone traps June 25 to July 2. (F. Hall).

REDBANDED LEAFROLLER (Argyrotaenia velutinana) - OHIO - District> County= status: NE> Wayne and NC> Ashland= second generation adult flights underway with 97 caught in 4 pheromone traps. (F. Hall). NEW YORK - Area> status: Hudson Valley> second flight began. (Ophardt).

APPLE MAGGOT (Rhagoletis pomonella) - NEW YORK - First catch of season. Area> adults: Hudson Valley> caught June 22. (Ophardt). District> County= status: SE> Columbia= first adults June 22 (Ophardt); statewide> caught (Leeper).

WESTERN CHERRY FRUIT FLY (Rhagoletis indifferens) - WASHINGTON - District> County= adults trapped: EC> Grant and Adams= none week ending June 30; NE> Spokane= 23 in 22 traps at Green Bluff, heaviest 9 in 1 trap. (R. Hunter, E. Kupferman).

PEAR PSYLLA (Psylla pyricola) - NEW YORK - Area> status on pears: Hudson Valley> first nymph at hard shell stage, week of July 5. (Ophardt).

EUROPEAN RED MITE (Panonychus ulmi) - OHIO - District> County= status in apple orchard: C> Fairfield= populations still building, mites 3-5 per leaf this period compared to 2 per leaf last period. (R.P. Holdesworth).

CITRUS

INSECTS

CITRUS WHITEFLY (Dialeurodes citri) - FLORIDA - District> County= status: C> Orange and Lake= very heavy buildup in commercial and dooryard plantings of citrus last 2-3 periods in spite of usual spraying operations in commercial plantings. (C.E. Mosteller).

SMALL FRUITS

INSECTS

GRAPE BERRY MOTH (Endopiza viteana) - OHIO - District> County= status on grapes: NE> Wayne= second generation adults flying for about 10 days, larvae infested 1% of Concord grape clusters. (R. Williams).

FOREST AND SHADE TREES

INSECTS

A PHYLLOXERA (Adelges laricis) - IDAHO - New State record. District> County= status: N> Latah= caused galls on spruce and damaged larch twigs and needles at Moscow, April 22, 1979. Collected by M.M. Furniss. Determined by M.B. Stoetzel. (H.H. Homan).

VIRGINIA PINE SAWFLY (Neodiprion pratti pratti) - NORTH CAROLINA - Pine defoliation widespread in Central Piedmont, damage scattered except for few locations where sizable hectares defoliated. District> County= status: Northern Piedmont> Alamance, Caswell, and Rockingham= damage heaviest. (T.N. Hunt).

INTRODUCED PINE SAWFLY (Diprion similis) - NORTH CAROLINA - District> County= status: Northern Mountain> Avery= adults emerged from cocoons in Linville area around April 5 and laid eggs; currently, larval feeding on white pine needles began. (T.N. Hunt).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= adult averages per head on small beef herd June 23 and 29: C> Alachua= 364 and 374, respectively, at Newberry. (D. Boyd). ILLINOIS - District> County= adult averages per head of cattle, 10 animals per herd, June 27-28: NW> Lee= 60.5 in 3 herds and NE> Grundy= 86.0 in 2 herds. (K. Black). WISCONSIN - District> County= adults per side on cattle: SW> Grant= light to moderate, up to 20. (O.L. Lovett).

STABLE FLY (Stomoxys calcitrans) - FLORIDA - District> County= adult averages per head: C> Hillsborough= 5-10 at Ruskins and Alachua= 5-10 near Hague. (J.F. Butler et al.). ILLINOIS - District> County= adult averages per head of cattle, 10 animals per herd, June 27-28: NW> Lee= 5.4 in 3 herds and NE> Grundy= 18.6 in 2 herds. (K. Black). WISCONSIN - District> County= adults per side on cattle: NC> Price= 25, very heavy. (O.L. Lovett).

FACE FLY (Musca autumnalis) - ILLINOIS - District> County= adult averages per head of cattle, 10 animals per herd, June 27-28: NW> Lee= 4.2 in 3 herds and NE> Grundy= 20.2 in 2 herds. (K. Black).

MOSQUITOES - ARKANSAS - Adults in New Jersey-type light traps, June 20-26 (M.V. Meisch, D. Bassi):

District> County	City	No. of Psorophora	No. of Aedes	No. of Culex	No. of Anopheles	No. of traps
EC> St. Francis	Forrest	20	7	8	500	5
SE> Ashley	Hamburg	1547	18	56	516	5

MINNESOTA - Coquillettidia perturbans heavier in light traps this year than in 1978. Area> biting species in order of abundance; adult species in light traps; and larval collections, June 23-29: Metropolitan Mosquito District> Aedes cinereus, Aedes vexans, and Aedes stimulans; C. perturbans 54%, A. vexans 19%, and A. cinereus 6%; A. vexans 43%, Aedes spp. 33%, and A. cinereus 16%. No change in larval status. Annoyance generally light, small pockets when levels heavy. (D. Sreenivasam).

FEDERAL AND STATE PROGRAMS

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - District> County= status: SE> Walworth= no change in populations since 1978, full-grown larvae light in 1 oat [beginning to head] field but only feeding damage apparent in most fields. (O.L. Lovett). WEST VIRGINIA - District> County= status on corn June 26: SW> Mason= heavy adult populations damaged leaves in several fields. (C. Stuart).

GRASS BUGS - CALIFORNIA - District> County= Irbisia spp. adults per sweep of hay oats: NE> Plumas= heavy, 10 at Greenville, June 21. (F.H. Surber, M. Horn). UTAH - District> County= Labops hesperius status on planted grass: C> Sanpete= adults or 4th and 5th instar nymphs at Fairview Canyon Summit, June 29, damage moderate to severe. (J.B. Knight).

GRASSHOPPERS - WASHINGTON - District> County= Melanoplus sanguinipes, Melanoplus femurrubrum, Melanoplus bivittatus status on rangeland: C> Benton= 5-40 per 0.8 sq m on rangeland near Paterson, Klickitat, and Yakima= 83,365.5 ha sprayed, and Okanogan and NE> Ferry= 40,468.7 ha to be sprayed, eastern area> economic in most of area. (D. Keim). NEVADA - District> County= status week ending June 29: W> Humboldt= M. sanguinipes (75%) and Oedaleonotus enigma enigma (25%) on 11,519 ha of private and public rangeland treated in Orovada and Paradise Hill areas and Kings River Valley, additional economic infestations in former areas surveyed and treatments planned (D. Kail); M. sanguinipes (70%) and O. enigma enigma (30%) averaged 4-5 per 0.8 sq m on 1,756 ha of rangeland and M. sanguinipes averaged 20-25 per 0.8 sq m of hay alfalfa on 64.7 ha in Pumpernickel Valley. (M. Larraneta).

Nevada - District> County= current adult status: NE> Eureka= M. sanguinipes averaged 100+ per 0.8 sq m in 91.4-m margin on 809.4 ha of grain surrounded by large burned range area at Dunphy, rest of grain field averaged 8+ per 0.8 sq m but will increase if migrations from burned areas continue (D. Kail); W> Humboldt= Camnula pellucida (95%) and M. sanguinipes (5%) economic on about 490 ha of native meadow and pasture at Rock Creek, Pumpernickel Valley, area to be treated (D. Kail, M. Larraneta), economic populations of M. sanguinipes (80%) and Oedaleonotus enigma enigma (20%) on private and public rangeland to be treated as follows: Kings River Valley 259 ha, Paradise Hill 2,706 ha, Rock

Creek (Pumpernickel Valley) 384 ha, and Tipton Ranch (Pumpernickel Valley) 488.5 ha; NE> Eureka= M. sanguinipes averaged 30-50 per 0.8 sq m on 4,000+ ha of burn surrounding 809.4 ha of grain at Dunphy (D. Kail).

IDAHO - District> County= M. sanguinipes nymphs June 26: SC> Twin Falls= moved off desert into bean and hay fields near Hagerman, 50 per 0.8 sq m on 80.9 ha of potatoes and beans at Hagerman. (J.E. Wilson, R.L. Stoltz). UTAH - Maturing in several counties on range areas and moving into alfalfa and small grain fields. District> County= movement from rangelands: N> Box Elder= into small grains south of Snowville (G.F. Knowlton) and Cache= into alfalfa fields on eastern side (D.W. Davis) and S> Iron= into alfalfa fields (L. Esplin).

MONTANA - District> County= status: NE> Roosevelt= damage heavy on wheat at Poplar, and NW> Sanders= damage heavy on alfalfa range pasture. (G. Jensen). OKLAHOMA - District> County= counts of mostly M. bivittatus, few Hesperotettix speciosus, and other species per 0.8 sq m week ending June 29: SC> Garvin= 10-100 on 80.9 ha of pasture land in Wynnewood area (controls applied); Johnston= 2-10 in pastures; Pontotoc, Atoka; SE> Le Flore; and EC> Pittsburg= mostly Melanoplus spp. 5-20 on roadsides; and C> Payne= 0-20 on roadsides in Perkins area. (D.C. Arnold).

KANSAS - First M. bivittatus adult of season. District> County= adults: SC> Comanche and SW> Clark= June 19, now found as far north as EC> Morris County by June 27. (K.O. Bell, Jr.). District> County= status: Southeastern area> spotty occurrences more noticeable along field margins and other waste areas (G.E. Lippert); heavier than in 1978, not much infestation of field crops yet, averaged 15-20 per 0.8 sq m in some grass pastures, some growers will treat (G.L. Kilgore); northeastern area> Melanoplus differentialis and M. femurrubrum still hatching (J.D. Lambley et al.); WC> Wallace= M. differentialis still hatching along roadsides, June 20 (K.O. Bell, Jr.); southern area> M. sanguinipes mostly adults; northern area> 3rd to 5th instar nymphs still present (J.D. Lambley et al.); SW> Seward= mating M. sanguinipes first noted June 19 (K.O. Bell, Jr.); SC> Edwards= about 300 ha treated (G.A. Salsbury); SC> Comanche and NE> Pottawatomie= Entomophthora sp. (an insect fungus) destroyed trace population of M. bivittatus by June 19 and June 26, respectively (K.O. Bell, Jr.); EC> Shawnee= Entomophthora infected many 3rd instar M. differentialis nymphs in spots in 1 alfalfa field (H.D. Garwood).

NEBRASKA - Mostly Ageneotettix deorum in pastures and M. differentialis, M. bivittatus, and M. femurrubrum in roadside ditches, field margins, and crop fields. Nymphs 1st to 4th instar, mostly in 2nd and 3rd instar. District> County= nymphal range (average) per 0.08 sq m: NE> Cedar= 3-15 (7) in 5 field margins in north-central and central areas June 28 (Vawser), Knox= 15-40 (no data) in 5 pastures, no data (15) in 1 alfalfa field and no data (20) in 1 oat field in northwestern area (Thomas), and Burt= 5-20 (10) in 3 pastures and 5-60 (11) in 8 roadside ditches (Wilson); and C> Dawson= 20-40 (25) in 10 pastures in northwestern area, no data (7.5) in 8 pastures in northeastern area, no data (5) in 12 roadside ditches in Platte Valley, and no data (less than 3) in alfalfa fields (Stenberg).

NORTH DAKOTA - District> County= status: SW> northeastern Golden Valley and northwestern Billings= mostly 2nd and 3rd instar Camnula pellucida, Aeropedellus clavatus, Amphitornus coloradus, Aulocara elliotti, and Ageneotettix deorum 80 per 0.8 sq m of rangeland June 18-21, hot spots with heaviest counts of 12-32 in alfalfa and grass meadows adjacent to Beaver Creek and Little Missouri

River; Golden Valley= mostly M. bivittatus and M. sanguinipes on barley [tillering] fields in cropland adjoining rangeland, marginal damage heavy, up to 50%. (C.G. Scholl).

GYPSY MOTH (Lymantria dispar) - WISCONSIN - District> County= status: SE> Waukesha= disparlure treatment on about 200 ha in Okauchee to Oconomowoc Lake area planned for July 10-11; NC> Outagamie= about 1,900 traps in 3 sq km at Appleton, to catch males before they can mate; and southern one-half area> detection and delimiting surveys continuing. (O.L. Lovett).

JAPANESE BEETLE (Popillia japonica) - VIRGINIA - Adults fed on numerous ornamentals and shade trees throughout State. District> County= adult status: C> Chesterfield= first of season feeding on roses, June 24 (D. Kludy), and Fluvanna= feeding on grape vines, June 25 (R.C. Watts).

DETECTION

NEW STATE RECORD

INSECTS

A PHYLLOXERA (Adelges laricis) - IDAHO - Latah County. (p. 469).

CORRECTIONS

CPPR 4(19):335 - ALFALFA WEEVIL (Hypera postica) - FLORIDA - Both credits (M.B. Adar) should read (M. Badar).

CPPR 4(19):337 - BLUE MOLD (Peronospora tabacina) - FLORIDA - "... average temperature of -17 to -16°C below normal ...." should read "... average temperature of 1-2°C below normal ...."

CPPR 4(22):410 - Rangeland Grasshopper Situation - "... 3.5 million ha ...." should read "... 1.4 million ha ...."

LIGHT TRAP COLLECTIONS

	Temperature °C	Precipitation mm	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (white head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Lasperesia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (beet webworm)	Loxostege sticticalis (garden webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellow-striped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 6/25-7/1			BL	1					14						1		5		23		1	1		
FLORIDA																								
Gainesville 6/28-7/4			BL					11	1											3	2			
MINNESOTA																								
Fergus Falls 6/27-7/3	13-36	41.9	BL	3												17	1	29				1		
Worthington 6/27-7/3	15-31		BL	6												43		721						
MONTANA																								
Bozeman 6/25-29			BL		2	1	2						16											
NEBRASKA																								
Aurora 6/27-7/3			BL	416					32							112	1412	35075			4			
Clay Center 6/29-7/5			BL	172			4		10							16	141	1397			1			
OHIO (Counties)																								
Putnam 6/26-7/2			BL	1	1											13	1	51			2	2		
Wayne 6/28-7/4			3BL	24												4	16	15						
WEST VIRGINIA (Counties)																								
Monroe 7/2			BL															36				1		
Putnam 6/28-7/1			BL	6										1				34						
WISCONSIN																								
Lancaster 6/28-7/3			BL	5												1	7	52						
Mazomanie 6/28-7/3			BL	2												0	0	5						

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Ceratitis capitata (Wiedemann) Mediterranean fruit fly Det. J. Dooley	larval	in custard apples from quarters of aircraft	Peru	Los Angeles	CA
Cryptophlebia leucotreta Meyrick false codling moth Det. D.M. Odermatt	larval	in Capsicum from baggage	Nigeria	Kennedy Airport	DC
Heilipus bioculatus Boheman a weevil Det. D.R. Whitehead	adult	on Dracaena stems from cargo	Costa Rica	Miami	FL
Incisitermes sp. a termite Det. D.R. Smith	adult	in wood boat cradles from cargo	Republic of China	Houston	TX
Pulvinaria ixorae Green a coccid scale Det. S. Nakahara	adult	on unknown leaves from baggage	India	Kennedy Airport	CA
Thrips obscuratus (Crawford) a thrips Det. R.K. Kunishi	adult	on peaches from baggage	New Zealand	Honolulu	HI
Cochlicella conoidea (Draparnaud) a helicid snail Det. F. Matthews	adult	on military cargo	Morocco	Port Everglades	FL
Otala lactea (Müller) a helicid snail Det. F. Matthews	adult	on container	Italy	Miami	FL

Grasshoppers have increased to unusually heavy populations on field crops in certain areas of the Western States. Infestations are most severe in Washington, Oregon, New Mexico, Texas, Oklahoma, Kansas, Nebraska, and particularly in South Dakota. Localized heavy infestations on roadsides and field margins in most of these States are serious. In general, four grasshopper species are involved: Twostriped grasshopper (Melanoplus bivittatus), differential grasshopper (Melanoplus differentialis), migratory grasshopper (Melanoplus sanguinipes), and redlegged grasshopper (Melanoplus femurrubrum).

Problems in Washington occur mostly in central and eastern areas. Migratory, twostriped, and Packard grasshoppers (Melanoplus packardii) are causing the most damage. Adults represent 25-50% of the grasshopper population. Nymphs and adults range 0-40 per 0.8 sq m near cropland areas. Damage to borders of alfalfa fields in Klickitat, Yakima, and Benton Counties is considerable. Some wheat fields and other crops have heavy damage to border areas. As most of the wheat is mature, heavy damage is not expected. Damage to alfalfa is expected to increase. Irrigated crops near areas with high grasshopper populations are expected to be damaged. Some damage to orchard margins in Yakima County is anticipated. Little parasitism has been observed.

The grasshopper situation in Oregon is serious. Migratory grasshopper is causing most of the damage. Adults represent up to 50% of the population in some areas. Wheat and alfalfa are the crops most seriously damaged in eastern and central Oregon. Damage is occurring in border rows. Many field interiors are also being damaged in isolated "hot spots." Wheeler, Wasco, Wallowa, Sherman, Union, and Baker Counties have heavy losses. With rangelands near many irrigated croplands, grasshoppers are moving from rangelands to irrigated crops. Losses can be expected if nothing unforeseen curbs the current trend.

In eastern New Mexico, heavy populations of grasshoppers damaged several thousand hectares of corn and alfalfa in Eddy County and over 200 ha in Guadalupe County. Truck crops and gardens have also suffered damage. Melanoplus spp. and Schistocerca shoshone predominate on cropland. Major increases in damage levels are not expected as populations have probably peaked.

In Texas, lubber grasshopper (Brachystola magna) and differential grasshopper infestations are spotty in margin rows of cotton in the North-Central, Rolling Plains, and St. Lawrence Valley regions. Predators and parasites have not been reported. If drought and other conditions favorable to grasshopper development continue, heavy populations are possible in the Panhandle area, especially on corn and sorghum.

Grasshoppers are problems in several areas of Oklahoma. The principal species damaging field crops is the redlegged grasshopper, followed by the differential grasshopper and twostriped grasshopper. Fifth instars or adults predominate. These species are causing heavy to moderate damage to grain and forage sorghum in the western area. The heaviest damage is to margins but damage may extend 30.5 m into a field. Border populations ranged 10-30 per 0.8 sq m. Damage to soybeans and peanuts is moderate to light in the southwestern area with populations light on borders of seedling cotton. Parasites and predators are very light. With continued dry conditions, the steadily increasing populations will most likely intensify. Currently, populations are 1.2 to 1.4 times worse than last year.

Grasshopper infestations on crops in Kansas are scattered and light. Heaviest damage, primarily by differential, twostriped, migratory, and redlegged grasshoppers, is occurring in the southern and south-central areas, mostly on soybeans. Hatch is complete in the southern part of the State. Populations are developing from the southwest to the northeast as they did during 1978 but are expected to exceed 1978 levels, especially in the southeastern and east-central areas. Damage is expected on corn, sorghum, soybeans, and alfalfa. Second generation egg laying by migratory grasshopper was observed. Heavy damage from this generation is possible late in the season if conditions continue favorable. Diseased grasshoppers has been reported in only one instance.

Differential, redlegged, migratory, and twostriped grasshoppers are the major species on crops in Nebraska. Migratory and twostriped grasshoppers are more prevalent in the western area. Scattered alfalfa fields, 10-16 ha in size, have been completely defoliated in the northwest in Sheridan County. In the northeast in Knox County some fields averaged 5.5 nymphs per 0.9 sq m and 10 per 0.9 sq m in border areas. Light scattered populations are present on alfalfa in Nuckolls County. Recent rains have kept grasses near crop areas green. Large scale movement into crops has not occurred. Parasites and predators are light.

The grasshopper situation is very serious in South Dakota. Crop destruction is mainly by twostriped, differential, and redlegged grasshoppers. A number of rangeland species are moving from heavily infested range into alfalfa and other crops. The problem is more extensive in the western area with "hot spots" in Spink, Aurora, Sully, and other eastern counties. Some wet weather during egg hatch in the eastern third of the State contributed to some mortality and lowering of nymphal populations. Dry weather in the western area contributed to high populations. If conditions remain positive for grasshopper development in the western area, grazing capacity on summer and winter pastures will be greatly reduced or eliminated.

Contributing Factors

A combination of factors contributed to the grasshopper increase. Heavy numbers of eggs laid last fall were protected by the deep snow cover of the past winter. A steadily warming spring and warm dry weather since then resulted in a larger hatch, greater nymphal survival, accelerated nymphal development, and light disease levels.

Outlook

If this summer continues warm and dry, and other conditions remain favorable to grasshoppers, damage to succulent crops will increase as grasshoppers and crops mature. With a warm late fall, grasshoppers will be able to feed and lay eggs for a longer period. Unfavorable conditions would be expected to reduce grasshopper populations.

Prepared by New Pest Detection
and Survey Staff in cooperation
with State agencies

U.S. Dep. Agric.
Coop. Plant Pest Rep.
4(25):475-476, 1979

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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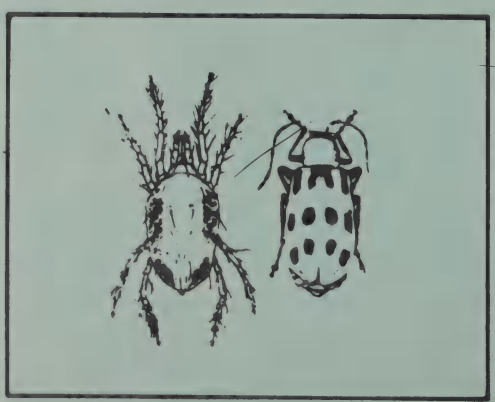
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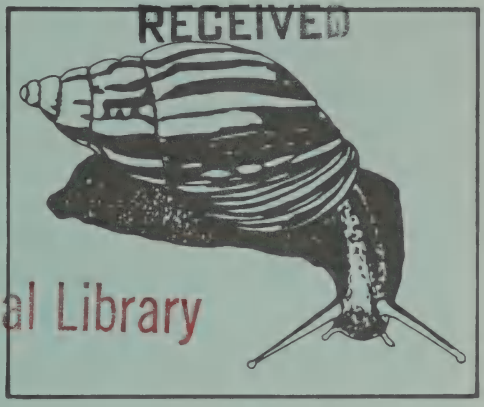
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

TAKE-ALL more widespread on winter wheat in Wisconsin. (p. 484).

DISEASE survey for beans completed in Wisconsin. (p. 490).

GRASSHOPPER problems in parts of California, Texas, and Oklahoma. (p. 495-496).

GYPSY MOTH larvae more common than in last 10 years in New Hampshire. (p. 497).

Prediction

Second generation EUROPEAN CORN BORER potential threat to sweet corn and snap beans in Wisconsin if weather continues warm and humid. (p. 480).

OAT STEM RUST will increase rapidly in Minnesota. (p. 494).

Detection

For new county and island records see page 499.

Some First Occurrences of the Season

CORN ROOTWORM adults in Kansas and Ohio. SUNFLOWER MOTH in North Dakota. ALTERNARIA EARLY BLIGHT on potatoes in Wisconsin. WHEAT STEM RUST in North Dakota.

Reports in this issue are for the week ending July 13 nless otherwise indicated.

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DISEASES

COMMON SMUT (Ustilago maydis) - IOWA - Area> prevalence on corn [pretassel] leaves in scattered fields, June 23 to July 6: Statewide> trace. (D.J. Williams).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - OHIO - District> County= prevalence/severity on corn [6 leaves] June 8: SE> Perry= 100% in portions of field/5-10% on lower leaves in 1 commercial field. (R. Hite).

STEWART'S WILT (Erwinia stewartii) - OHIO - District> County= status on corn June 8: SE> Perry and C> Knox= trace in 2 commercial fields. (R. Hite).

MAIZE DWARF MOSAIC VIRUS - See CORN LEAF APHID (Rhopalosiphum maidis), page 482-483.

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - KANSAS - District> County= status on corn: SC> Sedgwick and Kiowa= second generation adults trace in light traps (K.O. Bell, Jr.), stalk breakage 10-15% in 1 unusual case in latter county (J.R. VanKirk), Edwards= emergence trace in 1 field, Pratt, Kiowa, Edwards, Stafford, and SW> Ford= pupation varied from none up to 50% in Kiowa, 25% in Edwards, and 15% in Pratt County (K.O. Bell, Jr. et al.); NE> Pottawatomie and EC> Wabaunsee and Shawnee= pupation averaged about 25% [tassel 10-50%], no fresh egg masses (H.L. Brooks), NE> Jefferson= no adults in light trap on July 11 and 13, Leavenworth, Jefferson, Atchison, Brown, and Doniphan= pupation none [2 m tall to early silk] in 12 fields (B.D. Hilbert). First generation survey on corn (G.A. Salsbury et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SC> Kiowa	0-44	1.5-2.1 m	6
SC> Edwards	0-82	1 m to silk	3
SC> Edwards	64	pollen	1
SC> Pratt	1	tassel	1
SC> Pratt	16-80	2.1 m to pollen	3
SW> Seward	trace to 78%	1.5 m to tassel	4
SW> Stevens	trace	1.5 m	1
NE> Leavenworth	20	2 m	1
NE> Atchison	8-26	1.5 m to silking	3
NE> Doniphan	6-36	1.5-2 m	3
NE> Brown	0	1.5-2.1 m	2
NE> Jefferson	10-14	2 m to silking	2
EC> Douglas	50	2.4 m	1
EC> Anderson	10	2.4 m	1

NEBRASKA - District> County= European corn borer status on corn: SW> Keith and Perkins= "shothole" damage 4-34% (averaged 15%) in 7 of 91 fields, Lincoln= egg masses scattered in 47 fields (Kozub); southeastern one-third area> first generation adult activity apparently over; E> Hamilton= no adults in black-light trap; SE> Clay= only 10 adults in 1 trap July 4-12 (Peters et al.); C> Buffalo, Hall, Howard, S> Kearney, E> Merrick, Hamilton, Nance, Butler, Seward, and York= larvae on 0-65% (averaged 11.7%) in 175 of 194 fields. (Monke, Raun).

MISSOURI - European corn borer larvae 0.30-3.80 (averaged 1.34) per plant and leaf feeding on 50+% of plants in 0.86% of 344 corn fields. Area> status: Northern> first generation larvae in stalks, southwestern> pupation observed, and southeastern> second generation adults emerged. (M.E. Roof).

IOWA - Significant decrease in European corn borer flight over State. District> County= blacklight trap collections per night: NC> Hancock= 45 at Kanawha, SC> Ringgold= 95 at Beaconsfield, NE> Dubuque= 20 at Dubuque, and SE> Henry= 30 at Mt. Pleasant. (M. Gray). Status: C> Poweshiek, Tama, Dallas, WC> Guthrie, and Greene= infestations generally light in 14 corn fields July 3 and 5, egg masses negative in 10 fields, and 2 and 1 per 100 plants in 2 fields each, infested plants 0-25% (averaged 9%) per field, and larvae averaged 1.6 per infested plant.(P. Bengston).

WISCONSIN - Second generation threat by European corn borer seems greater than normal but not as bad as in 1978; weather conditions next 4 weeks will greatly influence size of problem on sweet corn and snap beans; continued warm, humid weather would mean trouble. District> County= status on corn: SW> Sauk= pupal finds at Spring Green indicate first adults of first generation could appear before July 20 if weather remains hot; southern State line north to C> Waushara at Plainfield= larvae mostly 2nd and 3rd instars, wide variation in larval development indicates second flight will be prolonged, populations vary, larvae 1-6 per plant on 40% or more of shoulder-high plants in fields and fewer than 10% of plants infested in most waist-high fields; southern, central, and western areas= most effective treatment period for larvae ended, many 4th and 5th instar larvae still feeding in tassels and whorls but control results will rapidly become ineffective in 14 days. (O.L. Lovett).

ILLINOIS - First generation European corn borer survey should be completed by July 20. District> County= status on corn: Southern area> infested 0-100% (mostly 0-15%) of fields; as far north as SW> Clinton= pupation noted but 3rd and 4th instar larvae common in southern counties, and Union= larvae 4-8 per plant in 100% of field. (K. Black). INDIANA - District> County= status on corn: SW> Knox as far north as Vincennes, and SC> Harrison as far east as Corydon= pupae old, adults probably emerged in area. (R.W. Meyer).

OHIO - Some final instar European corn borer larvae in southwestern area boring into stalk. District> County= percent damage in individual corn [host stage] fields: SW> Hamilton= 10% and 20% [tassel]; Butler= less than 2% [midwhorl], 40% [silk], 30% [late whorl]; Preble= 70% and 34% [late whorl]; Warren= 33% [late whorl]; Clinton= 50% [tassel]; and Greene= 35% [late whorl]. (G.P. Walker). DELAWARE - Area> status: Statewide> adults averaged 5 per night in most traps. (P.P. Burbutis).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - KANSAS - First generation infestations unusually light on corn in southwestern and south-central areas. District> County= status on corn: SC> Kiowa= infestations none to trace in most fields but infested up to 14% of stalks in 1 field, pupae 2 of 43 larvae in 1 sample, first adult of first generation trapped July 12, Edwards= pupae 0 of 40 larvae from 1 field (G.A. Salsbury), and Stafford= infested 5% (J.R. VanKirk).

First generation larval survey on corn (G.A. Salsbury et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SC> Kiowa	0-14	1.5-2.1 m	6
SC> Edwards	0 to trace	1 m to silk	3
SC> Edwards	0	pollen	1
SC> Pratt	2	tassel	1
SC> Pratt	0	2.1 m to pollen	3
SW> Seward	0 to trace	1.5 m to tassel	4
SW> Stevens	trace	1.5 m	1
NE> Leavenworth	-	2 m	1
NE> Atchison	-	1.5 m to silking	3
NE> Doniphan	-	1.5-2 m	3
NE> Brown	-	1.5-2.1 m	2
NE> Jefferson	-	2 m to silking	2
EC> Douglas	-	2.4 m	1
EC> Anderson	-	2.4 m	1

CORN EARWORM (Heliothis zea) - FLORIDA - District> County= status on sweet corn: C> Alachua= damaged 15-20% of ears in 32-ha planting at Alachua, rains apparently washed away sufficient controls. (R.B. Baker). NORTH CAROLINA - District> County= larval infestations in corn: Southern Coastal> Harnett and Sampson, and Central Coastal> Wilson, Johnston, Wayne, Lenoir, and Craven= 1 larva per ear in 16-90% of ears (averaged 39% for tall fields); Northern Coastal> Martin, Halifax, and Edgecombe= infested 4-32% (averaged 12%) of ears in 7 fields. Generally, ear infestations to date averaged 20-40% below 1978 and 40-70% below 1977 period. (T.N. Hunt).

INDIANA - District> County= corn earworm status: SC> Lawrence= larvae up to 2 cm long collected from whorls of corn [up to 1 m tall extended leaf height]. (R.W. Meyer). OKLAHOMA - District> County= status on corn: C> Grady= infested ears almost averaged 100% on 445.2 ha, Panhandle> Texas= small larvae 5-10 per ear in sweet corn, and EC> Pittsburg= heavy in sweet corn. (D.C. Arnold).

ARMYWORM (Pseudaletia unipuncta) - KENTUCKY - Larvae still found in spotty, low level infestations throughout much of State week ending July 6. Area> status on corn: Northern and eastern> problems expected to increase on late-planted corn as second generation develops, and southwestern> light traps indicate second generation populations should be light. (P.E. Sloderbeck). NEBRASKA - District> County= status: E> Hamilton= adults heavy July 4-6 when 22,000 in blacklight trap at Aurora, decreased sharply July 7-10 with 2,000 adults taken (Cranfill, Miller); SW> adults increased week ending July 4 (Kozub), and Lincoln= 1st and 2nd instar larvae in scattered groups on weedy margin of corn field (Stamm).

FALL ARMYWORM (Spodoptera frugiperda) - ILLINOIS - Few fields infested with damage, usually not serious, in southern area; more damage expected. District> County= status on corn: SW> Perry= late-planted field total loss. (K. Black). INDIANA - District> County= status on corn: SC> Lawrence= larvae up to 25 mm long collected from corn [up to 1 m tall extended leaf height] in whorls. (R.W. Meyer). OHIO - District> County= status on late-planted corn [early whorl]: SW> Warren= last instar larvae spotty. (G.P. Walker).

YELLOWSTRIPED ARMYWORM (Spodoptera ornithogalli) - OKLAHOMA - District> County= counts per grain sorghum [10 cm tall] plant: NC> Kay= 0-2 in 1 field. (D.C. Arnold).

WESTERN BEAN CUTWORM (Loxagrotis albicosta) - KANSAS - First adults. District> County= adults trapped: WC> Greeley= first caught as far north as Tribune, 2 adults on July 9 in 1 light trap. (E F. Martinez).

STALK BORER (Papaipema nebris) - OHIO - District> County= status in corn [late whorl] field: SW> Butler= damage 20% in border row and negligible in interior of field. (G.P. Walker).

CORN ROOTWORMS (Diabrotica spp.) - KANSAS - First adults of season. District> County= WESTERN CORN ROOTWORM (D. virgifera) adults on corn: NE> Atchison (B.D. Hilbert), Pottawatomie, EC> Shawnee, Wabaunsee (0.1-2.5 per plant) (H.L. Brooks), and SC> Kiowa, Stafford, Edwards, and Pratt (0-1 per plant) (J.R. VanKirk, G.A. Salsbury)= found. NEBRASKA - District> County= corn rootworms on corn: SW> Lincoln= larvae 0.1-3 (averaged 1.41) per plant in 7 of 47 fields (Kozub); C> Hall and E> Nance= first D. virgifera adults found July 6; C> Buffalo and Howard, S> Kearney, E> Merrick, Hamilton, Butler, Seward, and York= first found July 9-11. (Monke, Raun).

ILLINOIS - Area> D. virgifera and NORTHERN CORN ROOTWORM (D. longicornis) status: Southern two-thirds> females indicate emergence is, or soon will be, peaking. Some larval damage. (K. Black).

WISCONSIN - First corn rootworm adults could possibly appear in corn by July 16-17 in advanced southern fields. District> County= status on corn: SC> Rock= pupae in soil and full-grown larvae at site near Janesville, and Columbia= full-grown larvae near Arlington; larval damage very light this summer. According to egg survey last fall and this spring, extensive damage due to larvae or adults seems unlikely. (O.L. Lovett).

INDIANA - New county record. District> County= collection data on corn: SW> Gibson= D. virgifera male near Wheeling, July 9, 1979, by R.W. Meyer. Determined by D.L. Matthew and D.L. Schuder. First of season. D. virgifera status: WC> Tippecanoe= adults on sticky traps July 9, 10, or 11, and Clay= male collected July 1 while sweeping roadside; SC> Lawrence= adults heavy in small corn plots on experimental farm, 2-3 per plant common; SC> and SW> adults occasionally observed in other fields. (R.W. Meyer).

OHIO - First adults of season. District> County= corn rootworm status on corn: SW> Clinton and Butler= newly emerged adults noted, silks visible on few plants and some adults in silk, goosenecking on 73% of corn in latter county, no larvae found in root system of 3 goosenecked plants (G.P. Walker), and WC> Clark= 3rd instars and pupae with moderate to light root damage to continuous corn (S. Clement).

GREENBUG (Schizaphis graminum) - KANSAS - District> County= counts per sorghum plant [host height]: NE> Atchison= concentrated on scattered plants but averaged about 1,250 on early sorghum [51 cm], Lysiphlebus testaceipes (an aphidiid wasp) parasitism well underway with mummy counts averaging about 15 per plant, Atchison and Doniphan= 0 [38-66 cm] in 5 other fields (B.D. Hilbert), and Leavenworth= trace in 6 fields (L.C. Bonczkowski) and EC> Douglas, Franklin, and Anderson= 0 [51-76 cm] in 3 fields (S.C. White), and Stafford= averaged 2 in 1 field (G.A. Salsbury).

CORN LEAF APHID (Rhopalosiphum maidis) - ILLINOIS - Area> status: southern two-thirds> infested about 60% of whorls with fewer than 10 per whorl in many fields. District> County= status on milo: SE> Franklin= 50-200 per plant on all

plants [51 cm tall] in field, little damage. (K. Black). WISCONSIN - District> County= status of this vector of MAIZE DWARF MOSAIC VIRUS on corn: Southern area> almost absent in many fields; C> Waushara= almost 300 per plant on about 5% of plants, reproduction heavy on corn [shoulder high] at Plainfield so buildup in Central Sands and elsewhere likely soon. (O.L. Lovett). OHIO - District> County= percent infestation on corn [host stage]: SW> Clinton= 20% [tassel], Greene= 3% [late whorl], and Hamilton= 35% and 10% [tassel]. (G.P. Walker).

AN APHID (Rhopalosiphum padi) - OHIO - District> County= percent infestation on corn [host stage] in 1 field each: SW> Clinton= 37% [tassel] and Greene= 23% [late whorl]. (G.P. Walker).

CHINCH BUG (Blissus leucopterus leucopterus) - OKLAHOMA - District> County= status on sorghum: NE> Ottawa= heavy, destroyed part of grain sorghum field [46 cm tall], Craig= heavy, and Washington= moderate; NC> Noble, Grant, and Kay= usually present but very light; and EC> McIntosh= averaged 5 per plant [blooming]. (D.C. Arnold). KANSAS - Migration from small grains completed in all surveyed areas. District> County= status on sorghum: C> Rice and McPherson, EC> Wabaunsee, and NE> Brown= damaged fields adjacent to small grains, C> Dickinson= field lost again after replanting, EC> Wabaunsee= unusually heavy infestation destroyed 27 m of sorghum [51 cm tall] adjacent to wheat field, Wabaunsee and NE> Pottawatomie= Beauveria sp. (a fungus) appeared to significantly reduce numbers in several fields (D.E. Gates et al.).

SMALL GRAINS

DISEASES

Wheat harvest near completion in north Texas and in full swing throughout central and northern Kansas, June 27 to July 10. Crop development still far behind normal in most of central Great Plains. Spring-planted small grains headed but development 1 week behind 1978 in most areas. Moisture problems variable throughout grain areas. Topsoil moisture depleted in many instances but enough moisture in subsoil to suffice presently. (A.P. Roelfs, D.L. Long).

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) moderate on winter wheat in MINNESOTA and SOUTH DAKOTA, June 27 to July 10. Trace common on spring wheat with severity 60% in some experimental plots in southern Minnesota. Severity 20% on wheat leaves in OHIO (R. Hite) and WEST VIRGINIA (Bostic). Significant amount of leaf rust in southeastern WASHINGTON. Most severe in irrigated fields but could increase on spring wheat with more rain. (Line). OHIO - District> County= wheat leaf rust prevalence/severity on wheat [late bloom to middough] June 18-29: NE> Wayne, NW> Wood, C> Franklin, and WC> Hardin= trace to 100%/ trace in 3 commercial fields and 1 monitoring plot. (R. Hite).

WHEAT STRIPE RUST (Puccinia striiformis) severe in Willamette Valley of OREGON, but weather unfavorable for rust development in this area June 27 to July 10. (A.P. Roelfs, D.L. Long). ILLINOIS - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of June 11: NW> Ogle= 90%/15% [early milk] and NE> Kendall= 40%/6% [milk]; week of June 12-18: NW> Whiteside= 80%/10% [late milk]. (E.G. Jordan).

OAT CROWN RUST (Puccinia coronata var. avenae) increased in oat experimental plots and commercial fields in Upper Midwest June 27 to July 10. Severity trace to 40% on lower leaves in plots and trace to 10% in commercial fields. Losses could occur in later fields in northern oat-growing regions due to later than

normal crop maturity. Oat crown rust trace in plot of susceptible variety Marvellous in Franklin County, OHIO. (R. Hite).

IOWA - District> County= oat crown rust prevalence/severity in oat [milk to dough] fields June 23 to July 6: SE> Washington and Keokuk= trace/trace; C> Story and Polk, and SC> Warren and Marion= 50-100%/trace to 20%; and EC> Benton and Linn= trace/trace. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on oat [host stage] leaves in 1 commercial field each, week of July 2: W> Warren= 50%/2% [late milk] and Knox= trace/trace [milk]; C> Peoria= trace/trace [early dough]; E> Livingston= trace/trace [milk]; NE> Grundy= trace/trace [milk], Kendall= 50%/2% [milk], Kane= 100%/8% [early milk], and De Kalb= 100%/5% [milk]; and NW> Lee= 100%/3% [milk]. (E.G. Jordan). OHIO - District> County= prevalence/severity on 'Marv' oats [milk] July 2-6: C> Franklin= 2%/trace in 1 monitoring plot. (R. Hite).

RYE LEAF RUST (Puccinia recondita f.sp. secalis) light on spring rye in MINNESOTA and WISCONSIN, June 27 to July 10 and moderate in WEST VIRGINIA (Bostic) and OHIO. Ohio - District> County= prevalence/severity on 'Prolific' rye [milk] in 1 monitoring plot July 2-6: C> Franklin= 100%/trace. (R. Hite).

BARLEY LEAF RUST (Puccinia hordei) severity at 10% at Colby, northwestern KANSAS, experimental station plots on barley [soft dough] around June 27. (A.P. Roelfs, D.L. Long).

For STEM RUSTS, see p. 494-495.

WHEAT POWDERY MILDEW (Erysiphe graminis f.sp. tritici) - OHIO - District> County= prevalence/severity mostly on lower wheat [mid to late dough] leaves June 18-29: NE> Wayne, NC> Ashland, and WC> Hardin= 100%/1-5% in 3 commercial fields (R. Hite). MICHIGAN - District> County= prevalence/severity on wheat [host stage] leaves in 1 commercial field each, week of May 14: SE> Monroe= trace [second node], Lenawee= trace/trace [last leaf visible]; SC> Branch= 30-40%/5-10% [first node]; and SW> Berrien= 80-90%/60-70% [last leaf visible]. (B.P. Singh).

TAKE-ALL (Gaeumannomyces graminis var. tritici) - WISCONSIN - Appears more widespread and damaging to winter wheat this year. Wet fall and spring and inadequate crop rotations contributed to increase. District> County= prevalence on wheat: SE> Racine= 20-30%, and Walworth, SC> Dane, Dodge, and Columbia= 0-52%. (O.L. Lovett). OHIO - District> County= prevalence on wheat [mid to late dough] June 18-29: NE> Wayne and WC> Hardin= trace to 1% in 2 commercial fields. (R. Hite).

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - MICHIGAN - District> County= prevalence on wheat [last leaf visible] week of May 14: SE> Lenawee= trace to 5% in 1 commercial field. (B.P. Singh).

LOOSE SMUT (Ustilago avenae) - IOWA - District> County= prevalence on oats [milk to dough]: SE> Lee, Des Moines, and EC> Johnson= trace. (D.J. Williams). ILLINOIS - District> County= prevalence on oat heads [host stage] in 1 commercial field each, week of July 2: C> De Witt= 3% [milk], and Peoria= 3% [early dough]; W> McDonough= 12% [late milk], Warren= 6% [late milk], and Knox= 5% [milk]; NE> Grundy= 3% [milk], and De Kalb= 1% [milk]; and NW> Lee= 2% [milk]. (E.G. Jordan).

SEPTORIA COMPLEX (Septoria spp.) - OHIO - District> County= prevalence/severity on upper and lower wheat [mid to late dough] leaves, respectively, June 18-29:

NC> Ashland, NW> Wood, and WC> Hardin= Septoria spp. 100%/5-90% in 2 commercial fields and 1 varietal performance nursery. (R. Hite).

SPECKLED BLOTCH (Leptosphaeria (Septoria) avenaria) - ILLINOIS - District> County= prevalence/severity of imperfect stage on oat [host stage] leaves in 1 commercial field each, week of July 2: W> Warren= 30%/1% [late milk]; E> Livingston= 80%/5% [milk]; NE> Grundy= 80%/8% [milk], Kendall= 90%/10% [milk], Kane= 85%/10% [early milk], and De Kalb= 90%/12% [milk]; and NW> Lee= 80%/5% [milk]. (E.G. Jordan).

SCAB (Fusarium spp.) - OHIO - District> County= prevalence on wheat [mid to late dough] heads June 18-29: NE> Wayne, NW> Wood, and WC> Hardin= 1-5% in 3 commercial fields. (R. Hite).

SMOOTH-SPORED BUNT (Tilletia foetida) - ILLINOIS - District> County= prevalence on wheat [dough] heads week of July 2: NE> Kane= 20% in 1 commercial field. (E.G. Jordan).

HALO BLIGHT (Pseudomonas coronafaciens) - IOWA - District> County= prevalence/severity on oats [milk to dough], June 23 to July 6: SC> Warren and Marion= trace to 10%/trace; EC> Benton, Linn, SE> Washington, Keokuk, and EC> Johnson= 30-50%/trace; and SE> Des Moines, Lee, and Henry= 70-99%/trace to 20%. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on oat [host stage] leaves in 1 commercial field each, week of July 2: C> De Witt= 100%/18% [milk]; W> McDonough= trace/trace [late milk], Warren= trace/trace [late milk], and Knox= 100%/15% [milk]; NE> Kane= 25%/20% [early milk], and De Kalb= trace/trace [milk]. (E.G. Jordan).

BARLEY YELLOW DWARF VIRUS - IOWA - District> County= prevalence of red leaf in surveyed oat [milk to dough] fields, June 23 to July 6: SE> Lee and Des Moines trace to 5% and Washington and EC> Johnson= trace to 30%. (D.J. Williams). ILLINOIS - District> County= prevalence on oats [host stage] in 1 commercial field each, week of July 2: C> De Witt= trace [late milk]; W> Warren= trace [late milk], and Knox= trace [milk]; E> Livingston= 1% [milk]; NE> Grundy= 1% [milk], Kendall= trace [milk], Kane= trace [early milk] and De Kalb= trace [milk]; and NW> Lee= 1% [milk]. (E.G. Jordan). OHIO - District> County= prevalence on oats July 2-6: C> Franklin= 5-20% in variety performance trial plots. (R. Hite).

WHEAT SPINDLE STREAK MOSAIC VIRUS - MICHIGAN - District> County= prevalence on wheat [first node] week of May 14: SC> Branch= 7% in 1 commercial field. (B.P. Singh).

INSECTS

WHEAT STEM SAWFLY (Cephus cinctus) - IDAHO - District> County= status on winter wheat: N> Kootenai= bleached heads up to 1% in 1 field near Rathdrum. (H.W. Homan).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - WISCONSIN - District> County= status on forage: NE> Langlade= tip feeding 70% in several second growth fields; south-central and southwestern areas> new adults and larvae light on second growth; EC> Sheboygan, SC> Dane, C> Marquette, and SW> Grant= Entomophthora sp.

(an insect fungus) identified from weevil larvae obtained in June, potential impact of this disease unknown. (O.L. Lovett).

ALFALFA LOOPER (Autographa californica) - WASHINGTON - District> County= trap catches for week ending June 26: W> Whatcom, Skagit, and Snohomish= 1,072 (averaged 97.5 per trap). Counts much lighter this year than those recorded this date in 1978 when 369 trapped. (P. Eide).

ARMYWORM (Pseudaletia unipuncta) - WISCONSIN - Area> small larvae per sweep of alfalfa: Southern one-fourth> 1-3 in many fields. (O.L. Lovett).

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= larvae per 10 sweeps of alfalfa: SC> Murray= 10-15. (D.C. Arnold).

GARDEN WEBWORM (Achyra rantalis) - OKLAHOMA - District> County= larvae per 10 sweeps of alfalfa: SC> Garvin= 0-80, Murray= 30-40, Stephens and C> Grady= averaged 15; and EC> Muskogee= heavy in 1 area. (D.C. Arnold).

POTATO LEAFHOPPER (Empoasca fabae) - OKLAHOMA - District> County= counts per 0.09 sq m of alfalfa: NE> Wagoner, EC> Muskogee, and McIntosh= 1-30. (D.C. Arnold). WISCONSIN - Heavier than usual. Nymphs heavy in many of following areas. District> County= status on alfalfa: EC> Calumet, Manitowoc, Brown, and C> Waushara= 0.5-1 per sweep of second growth alfalfa; and SC> Dane, Green, SW> Grant, and Iowa= slightly lighter. (O.L. Lovett).

INDIANA - Potato leafhopper populations, mostly adults with nymphs on all but shortest alfalfa, very heavy in southern fields. District> County= adults per sweep of alfalfa [host height]: SC> Jackson= 1.7 [new growth not yet stubble height, 4.1 cm] in 1 field, 3 [21 cm] from several fields, and Harrison= 2.6 [12 cm] in several fields. Delayed harvest of previous crop permitted buildup in several cases and movement from cut to new growth. (M.E. Meyer).

PEA APHID (Acyrthosiphon pisum) - WISCONSIN - District> County= counts per sweep of alfalfa: SC> Jefferson, Dane, SW> Iowa, and Grant= 5-40. (O.L. Lovett).

SPOTTED ALFALFA APHID (Therioaphis maculata) - UTAH - District> County= status on alfalfa: C> west Millard= populations increased, average counts 8.2 per sweeps, most control necessary. (L. Haskell).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults, respectively, per 100 sweeps of alfalfa: C> Maricopa= 76 and 20-92, Pinal= 41 and 68, and SW> Yuma= 10 and 0-120. (T. McCall et al.). UTAH - District> County= status on seed alfalfa: N> Box Elder= controls applied at Howell (H. Lindsay), C> west Millard= adults averaged 0.15 and nymphs 1.2 per sweep in fields (L. Haskell), and N> Cache= populations heavy in unsprayed fields (D.W. Davis).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - ILLINOIS - District> County= prevalence on soybean [host stage] stems on variety in 1 monitoring plot each, week of July 2: C> Logan= trace [7 nodes] on 'Woodworth' and NE> De Kalb= trace [6 nodes] on 'Beeson'. (E.G. Jordan). OHIO - District> County= prevalence on soybeans [3 nodes], June 18-29: NC> Erie, WC> Hardin, and NW> Wood= 1-5% in 2 commercial fields and 1 monitoring plot (R. Hite).

PHYLLOSTICTA LEAF SPOT (Phyllosticta sojaecola) - IOWA - District> County= prevalence/severity in soybeans [3-6 nodes], June 23 to July 6: SE> Lee, Des Moines, and Henry= trace/trace; C> Story and Polk= trace/trace; and EC> Benton, Johnson, and Linn= trace/trace. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 2: C> Logan= trace/trace [flowering] on 'Amsoy'; W> McDonough= trace/trace [flowering] on 'Amsoy'; NW> Putnam= trace/trace [flowering] on 'Amsoy 71'; and NE> De Kalb= trace/trace [6 nodes] on 'Amsoy 71'. (E.G. Jordan).

SOYBEAN BROWN SPOT (Septoria glycines) - IOWA - District> County= prevalence/severity of surveyed soybean [3-6 nodes] fields, June 23 to July 6: SE> Lee, Des Moines, and Henry= trace to 25%/trace; C> Polk, Story, and Marion= trace/trace; and EC> Benton, Johnson, and Linn= trace/trace. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves in 1 monitoring plot each, week of July 2: C> Logan= 100%/2% [flowering]; W> McDonough= 100%/3% [flowering]; NW> Putnam= trace/trace [flowering]; and NE> De Kalb= trace/trace [6 nodes]. (E.G. Jordan). OHIO - District> County= prevalence/severity on lower soybean [3 nodes to 1 flower any node] leaves June 18-29: NC> Ashland, Erie, NW> Wood, and C> Franklin= trace to 100%/trace in 2 commercial fields and 2 monitoring plots. (R. Hite).

RHIZOCTONIA ROT (Rhizoctonia solani) - IOWA - District> County= prevalence on soybean [4-6 nodes] roots, June 23 to July 6: EC> Benton, Linn, and Johnson= trace/10%, and C> Polk and Marion= trace/trace. (D.J. Williams). ILLINOIS - District> County= prevalence on soybeans [host stage] on variety in 1 monitoring plot each, week of July 2: C> Logan= trace [7 nodes] on 'Kent', NW> Putnam= trace [flowering] on 'Wells', and NE> De Kalb= trace [6 nodes] on 'Elf'. (E.G. Jordan).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - OHIO - District> County= prevalence/severity on upper soybean [1 flower any node] leaves, July 2-6: C> Franklin= trace/trace in 1 experimental plot. (R. Hite).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - IOWA - District> County= prevalence/severity on soybeans [3-6 nodes], June 23 to July 6: SE> Lee, Des Moines, and Keokuk= trace to 25%/trace to 3%, Henry and Washington= trace/trace; C> Polk, SC> Warren, and Marion= trace to 60%/trace to 20%, Story and Tama= 50%/trace to 10%; and EC> Linn, Benton, and Johnson= trace to 25%/trace to 10%. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 2: C> Logan= 100%/2% [7 nodes] on 'Essex'; W> McDonough= 100%/9% [6 nodes] on 'Essex'; NW> Putnam= 100%/1% [6 nodes] on 'Essex'; and NE> De Kalb= 100%/3% [5 nodes] on 'Essex'. (E.G. Jordan). OHIO - District> County= prevalence/severity on soybean [1 flower any node] leaves, July 2-6: NW> Wood and C> Franklin= 50-90%/trace to 2% in 1 monitoring plot and 1 experimental plot. (R. Hite).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - IOWA - District> County= prevalence/severity on soybeans [4-6 nodes], June 23 to July 6: C> Polk and Story= trace to 5%/trace. (D.J. Williams).

SOYBEAN MOSAIC VIRUS - IOWA - District> County= prevalence/severity on soybeans [4-6 nodes], June 23 to July 6: C> Polk= scattered infected plants in several fields indicate virus probably seed transmitted and SE> Des Moines and Henry= trace/trace. (D.J. Williams).

INSECTS

CORN EARWORM (Heliothis zea) - FLORIDA - District> County= this species, SOYBEAN LOOPER (Pseudoplusia includens), and VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) on soybeans: C> Alachua= increased, but not yet at economic levels at Alachua (R.B. Baker) and NW> Jackson= treatment not needed in 4,890 ha July 6 (J.E. Arnold), and Gadsden= no economic damage in Quincy area (D.E. Herzog).

GRAPE COLASPIS (Colaspis brunnea) - ARKANSAS - District> County= adults on soybeans: NE> Green= adults unusually heavy in some fields where larval and pupal counts reached 8 per 0.3 row m earlier in season. (J. Aikman). NORTH CAROLINA - District> County= status on soybeans: Northern Coastal> Tyrrell= scattered fields with spots 7.6-30.5 m in diameter damaged by larvae. Adults on 50+% of plants in about 10 fields. (W.R. Jester).

PEANUTS

INSECTS

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - FLORIDA - District> County= status on peanuts: NW> Jackson= populations increased steadily past 4 weeks due to little or no rain. Yield losses may occur if field remains at 15% infestation for 1+ week. (J.E. Arnold).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - OKLAHOMA - District> County= counts in number of pheromone traps: SW> Tillman= 2 in 16 traps, Harmon= 1 in 30, and Jackson, Greer, Kiowa, and WC> Washita= 0 in 150. (D.C. Arnold). ARKANSAS - District> County= adults in grandlure pheromone traps: SE> Jefferson= 0 in 10 traps. (M.A. Mayse).

BOLLWORMS (Heliothis spp.) - OKLAHOMA - District> County= BOLLWORM (H. zea) on cotton: SW> Jackson= eggs up to 35 per 100 terminals, few fields treated. (D.C. Arnold). ARKANSAS - District> County= H. zea and TOBACCO BUDWORM (H. virescens) status on cotton: Eastern area> larvae of both species generally light in cotton field and SE> Jefferson= 57 bollworm and 0 tobacco budworm in 10 light traps, June 28 to July 4. (M. Wall, J. Kimbrough).

TARNISHED PLANT BUG (Lygus lineolaris) - ARKANSAS - District> County= status of this species mostly, and COTTON FLEAHOPPER (Pseudatomoscelis seriatus) on cotton: SE> Jefferson= extremely heavy in some fields, 150+ per 7.3 row m, Lincoln= no fields surpassed treatment level, Desha= counts 49 per 17 row m of terminals, Ashley= at or above treatment level in 4 of 75 fields, and southern area> cotton fleahopper heavier than tarnished plant bug in some fields (M. Wall); northern area> mostly tarnished plant bug increased rapidly in many fields, fields near alternate plant hosts surpassed treatment level. (J. Kimbrough, F. Baldwin).

COTTON FLEAHOPPER (Pseudatomoscelis seriatus) - OKLAHOMA - District> County= counts per 100 cotton terminals: C> Grady= 20-30. (D.C. Arnold).

TOBACCO

INSECTS

TOBACCO HORNWORM (Manduca sexta) - FLORIDA - District> County= status on tobacco in early July: C> Alachua= egg laying increased on 40% of plants in 2-ha planting in northwestern area. (R.B. Baker).

GREEN PEACH APHID (Myzus persicae) - NORTH CAROLINA - Major insect on tobacco for third consecutive week. District> County= status on tobacco: Central Coastal> Lenoir; Central Piedmont> Wake; Southern Coastal> Bladen and Sampson= fields reaching threshold decreased slightly; and Northern Piedmont> Granville= 14 of 323 fields above threshold July 12 compared with 0 on July 6, indicates potential for buildup in area. (T.N. Hunt).

MISCELLANEOUS FIELD CROPS

INSECTS

SUNFLOWER MOTH (Homoeosoma electellum) - NORTH DAKOTA - First of season. District> County= adult status: NW> Williams= collected on sunflowers [not in bloom] at Williston, June 26. (French, Riveland).

POTATOES, TOMATOES, PEPPERS

DISEASES

ALTERNARIA EARLY BLIGHT (Alternaria solani) - WISCONSIN - First report of season on potatoes in Central Sands area. (O.L. Lovett).

BEET CURLY TOP VIRUS - NEW MEXICO - District> County= status on tomatoes and squash, week ending July 6: SE> Dona Ana= serious, prevalence 10-40% in home plantings in Mesilla Valley. (G.L. Nielsen).

INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - WISCONSIN - District> County= larvae per 25 sweeps of potatoes: C> Portage= 10 in 1 field. (O.L. Lovett).

EUROPEAN CORN BORER (Ostrinia nubilalis) - WISCONSIN - District> County= status on potatoes: SW> Sauk= mostly 4th and 5th instar larvae with pupae indicated next adult flight will start soon at Spring Green, damage readily noticeable in several fields, larvae in adjacent field corn not as advanced. (O.L. Lovett).

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - District> County= averages per 50 sweeps of potatoes: Central Sands area and SW> Sauk at Spring Green= 5. (O.L. Lovett).

GREEN PEACH APHID (Myzus persicae) - CALIFORNIA - District> County= nymphs and adults on pepper: Northern Coast> Humboldt= 10 per leaf at Eureka. (C.S. Papp).

POTATO APHID (Macrosiphum euphorbiae) - WISCONSIN - District> County= counts per 0.09 sq m of potatoes: C> Waushara and Portage= up to 1. (O.L. Lovett).

DISEASES

A DRY BEAN ROOT ROT (*Pythium* sp. and *Fusarium* sp.) - WISCONSIN - Survey of beans for 1979 (O.L. Lovett):

District> County	Prevalence (%)	Severity (%)	Number of fields
SC> Dodge	36	21	7
SC> Columbia	13	2	5
SC> Dane	56	28	5
SC> Rock	35	20	4
EC> Fond du Lac	2	1	5
EC> Sheboygan	1	1	5
EC> Winnebago	25	25	4
EC> Manitowoc	7	1	3
EC> Door	2	2	3
EC> Brown	5	10	3
EC> Outagamie	0	0	2
EC> Kewaunee	6	16	2
EC> Calumet	0	0	2
C> Green Lake	78	36	4
C> Portage	88	38	4
C> Waushara	35	15	3
C> Adams	58	41	2
SE> Ozaukee	21	9	2
SE> Walworth	0	0	4
SE> Washington	0	0	3
SW> Sauk	36	20	2
WC> Trempealeau	18	3	2
Average	23	13	

WISCONSIN - District> County= current prevalence of a dry bean root rot on 100 snap bean plants/estimated damage to root system and plant stunting in number of fields (f): C> Waushara= 22%/8% in 25f, Portage= 13%/19% in 15f, Adams= 15%/21% in 10f and averaged 17%/16% in 50f. (O.L. Lovett).

BEAN DOWNY MILDEW (*Peronospora pasi*) - WISCONSIN - District> County= prevalence/severity on beans for 1979: SC> Dodge= 5%/1%, EC> Fond du Lac= 1%/1%, Sheboygan= trace/-, C> Green Lake= 1%/1%, SE> Washington= trace/-, and SW> Sauk= 3%/1%; averaged 1%/1%. (O.L. Lovett).

BEAN ANTHRACNOSE (*Colletotrichum pasi*) - WISCONSIN - District> County= prevalence/severity on beans for 1979: EC> Fond du Lac= 1%/1% and C> Green Lake= 14%/1%; averaged 1%/1%. (O.L. Lovett).

BACTERIAL BROWN SPOT BLIGHT (*Pseudomonas syringae*) - WISCONSIN - District> County= prevalence/severity of brown spot on snap beans, week of July 6: C> Waushara and Adams= light, averaged 4%/1% in 14 of 35 fields, some sprays applied and 1 such field had 75%/7%. Prevalence/severity of blight on beans for 1979: EC> Fond du Lac= 1%/1%, SC> Columbia= 3%/1%, C> Portage= 11%/1%, Waushara= 8%/1%, Adams= 15%/1%, and SW> Sauk= trace/-; averaged 1%/1%. (O.L. Lovett).

INSECTS

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - District> County= counts per snap bean plant: EC> Manitowoc= 1 in 1 field, nymphs heavy in bean fields. (O.L. Lovett).

CUCURBITS

DISEASES

BEET CURLY TOP VIRUS - NEW MEXICO - See BEET CURLY TOP VIRUS, page 489.

GENERAL VEGETABLES

INSECTS

ALFALFA LOOPER (Autographa californica) - IDAHO - Pheromone trap catches (J.J. Madejian, L.E. O'Keeffe):

District> County	Area	June 15-20	June 16-22	June 21-28	June 23-29	June 29 to July 5	June 30 to July 6
N> Latah	North of Moscow	318		194		635	
N> Latah	East of Moscow	159		37		324	
N> Latah	Potlatch	85		39		100	
NC> Latah	Kendrick		23		37		
N> Nez Perce	Coyote Gulch		367		306		150

ASPARAGUS BEETLE (Crioceris asparagi) - OKLAHOMA - New county record. District> County= collection data on asparagus: C> Payne= eggs and adults light at Stillwater, July 10, 1979. Collected and determined by J.T. Criswell. (D.C. Arnold).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= trap catches July 7: EC> Grant and Adams= 44 in 79 traps (averaged 0.6 per trap) in commercial orchards and 132 (averaged 5.7 per trap) in traps in backyard apple trees. Highest count was 35 in 1 trap. (R. Hunter).

FILBERTWORM (Melissopus latiferreanus) - OREGON - First of season. County= adult status: Benton= detected in light trap near Albany, June 25 (G. Fisher); Polk= adult taken July 9 in blacklight trap in West Salem prune orchard infested in 1977 and Yamhill= emerged July 5. (P. Larson).

CHERRY FRUIT FLY (Rhagoletis cingulata) - OREGON - County= status on cherry: Marion= first emergence of season June 11. Populations heavy on unsprayed trees. (Stewart).

APPLE MAGGOT (Rhagoletis pomonella) - WISCONSIN - Adult catches in bait traps began. District> County= adults in traps: SW> Crawford and EC> Fond du Lac= first adults of season on commercial bait traps about June 25 to July 6, and SC> Dane= up to 5 per trap week ending June 13, and counts in other counties 2 or fewer per trap per week. (O.L. Lovett). MAINE - County= status on apples: Kennebec= continued to emerge from 'seeded' cages from Monmouth. First trapped adult on red ball sticky trap July 5. (A. Gall).

APPLE APHID (Aphis pomi) - MAINE - Populations will need retreatment in many apple orchards. Population buildup unusual due to extended fair weather with high temperatures. (A. Gall).

EUROPEAN RED MITE (Panonychus ulmi) - SOUTH CAROLINA - District> County= status on peaches: E> Chesterfield= eggs, crawlers, and adults heavy, adults averaged 20 per leaf with moderate damage. (C.S. Gorsuch).

MCDANIEL SPIDER MITE (Tetranychus mcdanieli) - UTAH - District> County= status in apple orchards: N> Davis= very serious at Farmington. (D.W. Davis).

FALL WEBWORM (Hyphantria cunea) - SOUTH CAROLINA - District> County= status on pecans: E> Marion, Darlington, C> Calhoun, Richland, and NC> Kershaw= observed on trees. Only scattered webs in commercial orchards. (C.S. Gorsuch).

PECAN SPITTLEBUG (Clastoptera achatina) - SOUTH CAROLINA - District> County= status on pecans: E> Darlington, Marlboro, and C> Calhoun= moderate to heavy on commercial and residential trees. Full-grown larvae 2-4 per spittle mass. (C.S. Gorsuch).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - MISSOURI - New county records from scotch pines in 1979. Confirmed by W. Friedman. (A. Foudin).

District> County	City	Collector	Determiner	Date
C> Maries	Vienna	F. Rycyk	F. Rycyk	May 1
SW> Jasper	Joplin	O. Carmichael	F. Rycyk	Apr 27
SE> Cape Girardeau	Cape Girardeau	L. Hanning	F. Rycyk	Apr 26
SW> Greene	Springfield	W. Todd	A. Foudin	May 1
E> St. Charles	St. Charles	S. Downing & D. Courtney	A. Foudin	May 3
E> St. Louis	outside St. Louis	R. Gass	A. Foudin	May 14
C> Cole	Jefferson City	F. Rycyk & J. Francka	A. Foudin	Apr 24

INSECTS

SPRUCE BUDWORM (Choristoneura fumiferana) - WISCONSIN - District> County= status: NE> Florence, Langlade, NC> Oneida, and Vilas= severe infestations, pupation completed by July 5 and 50% emerged by July 11. (O.L. Lovett).

NEW HAMPSHIRE - County= spruce budworm status on balsam fir, week of July 2: Coos= major infestation of last 3 years reduced, some severe infestations still persist at Pittsburg, especially in areas not previously heavily infested; infestations spread in eastern part and defoliation severe. Larvae appeared healthy and expected to produce large adult populations. Adult emergence began week ending June 29 and expected to peak next 7-10 days. Infestations expected to continue in previously uninfested area in 1980. (Morse). County= current status of spruce budworm: Coos= adults active throughout infested northern area, hundreds of adults flying around old trees in Lake Francis area July 5-6, and egg laying should commence next period. Most of infestation moved towards eastern State border. Previously healthy stands of balsam now heavily infested. (J.F. Burger).

BIRCH CASEBEARER (Coleophora serratella) - NEW HAMPSHIRE - County= status on white birch trees, week of July 2: Coos= damage severe in northern area, foliage browning noticeable from Berlin north to Errol; averaged 3 cases per leaf. Seems heavier in 1979 than in recent years. (Morse).

LOCUST BORER (Megacyllene robiniae) - UTAH - District> County= status on locust trees: N> Box Elder= severely damaged and destroyed trees. (H. Lindsay).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - OKLAHOMA - District> County= counts per head of cattle: C> Payne and NC> Noble= up to 1,000 on untreated beef and Major= 150-275; EC> Haskell= 200-600; SC> Atoka= 100-600; and NE> Craig= moderate. (D.C. Arnold). WISCONSIN - Adults 20-30 per side common on dairy and beef cattle in southern area. District> County= adults per side on cattle: SC> Jefferson= 0 on dairy cattle, Rock, and WC> Pepin= up to 70. (O.L. Lovett). INDIANA - District> County= average (range) per side on 15 head of mixed cattle, July 6-7: C> Grant= 15.6 (8-30) and WC> Warren= 59.3 (15-130). (E. Westby).

STABLE FLY (Stomoxys calcitrans) - WISCONSIN - District> County= adults per side of cattle: WC> Pepin= 3-12, heaviest on beef cattle. (O.L. Lovett).

FACE FLY (Musca autumnalis) - OKLAHOMA - District> County= status on cattle: NE> Craig and Washington= decreased to moderate levels past 2 periods, and C> Payne and NC> Noble= averaged less than 1 per head. (D.C. Arnold). WISCONSIN - Light in all reporting areas. District> County= adults per head of cattle: C> Wood= 10, heaviest. (O.L. Lovett). INDIANA - District> County= average (and range) per face on 15 head of mixed cattle, July 6-7: C> Grant= 14.5 (6-25) and WC> Warren= 8.4 (2-20). (E. Westby).

BLACK HORSE FLY (Tabanus atratus) - OKLAHOMA - District> County= adults of this species and a TABANID FLY (Tabanus mularis) per head on cattle: NC> Kay and Noble= up to 3. (D.C. Arnold).

MOSQUITOES - ARKANSAS - Adults collected in New Jersey-type light traps June 27 to July 2 (M.V. Meisch, D. Bassi):

District> County	City	No. of Psorophora	No. of Aedes	No. of Culex	No. of Anopheles	No. of traps
EC> Saint Francis	Forrest	303	87	49	205	5

EAR TICK (Otobius megnini) - OKLAHOMA - District> County= counts per head in ears of cattle herd: SC> Atoka= up to 34. (D.C. Arnold).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A EULOPHID WASP (Tetrastichus julis) - District> County= recoveries of 20+% parasitism unless stated otherwise of Oulema melanopus (cereal leaf beetle) larvae in individual fields May 15-25. WEST VIRGINIA - E> Greenbrier= 58% on barley and 67% on rye in Irish Corner Magisterial District. New county records. Berkeley= 53% on oats near Shepherdstown, May 20, 1979, and collected by J.

Staley. Hardy= 20% on grass near Moorefield, May 22, 1979, collected by G. Rapking. Both determined by V.E. Montgomery. VIRGINIA - N> Shenandoah= 25% on grass near Woodstock, Culpeper= 44% on barley near Rixeyville, and Warren= 36% on wheat near Rockland. New county record. W> Augusta= 6% on barley near Weyers Cave, May 16, 1979, collected by E. Morse, and determined by V.E. Montgomery. (T.L. Burger).

May 25 to June 1: OHIO - SW> Montgomery= T. julis 86% in oats in Butler Township, and Montgomery= 65% in oats in German Township and NE> Mahoning= 100% in wheat in Jackson Township. WEST VIRGINIA - NW> Tyler= 26% in oats in Union Magisterial District and 67% in Meade Magisterial District. New county record. SW> Wirt= parasitism 2% in oat field in Elizabeth Magisterial District, May 28, 1979, collected by D.L. Jones, determined by V.E. Montgomery. VIRGINIA - C> Campbell= 23% in wheat in Central Magisterial District and S> Halifax= 31% in oats in Staunton Magisterial District. New county records. SE> Mecklenburg= parasitism 11% in oats near Chase City, May 25, 1979, and collected by W. Whitehead. C> Appomattox= parasitism 11% in oats near Evergreen, May 29, 1979, and collected by J. Smut. Campbell= parasitism 6% in oats in Long Mountain Magisterial District, May 30, 1979, and collected by D. Barnes. S> Halifax= parasitism 18% in oats in Black Walnut Magisterial District, May 31, 1979, and collected by D. Barnes. All determined by V.E. Montgomery. (T.L. Burger).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - WEST VIRGINIA - New county records. District> County= collection data on parasitized (8%) Oulema melanopus (cereal leaf beetle) taken in rye field: E> Greenbrier= collected May 25, 1979, by E. Bostic. VIRGINIA - Collection data on parasitized (2%) cereal leaf beetle taken in oat field: C> Campbell= collected May 30, 1979, by D. Barnes. Both determined by V.E. Montgomery. (T.L. Burger).

AN ICHNEUMONID WASP (Lemophagus curtus) - VIRGINIA - New county record. District> County= collection data on parasitized (1%) Oulema melanopus (cereal leaf beetle) taken in barley field: N> Culpeper= collected May 29, 1979, by M. Hutcheson. Determined by T.L. Burger. (T.L. Burger).

FEDERAL AND STATE PROGRAMS

DISEASES

A BARLEY STEM RUST (Puccinia graminis f.sp. tritici) trace on barley [soft dough] at Colby, northwestern KANSAS, experimental station plots, around June 27. (A.P. Roelfs, D.L. Long).

BLACK STEM RUST (Puccinia graminis) aecia collected from barberry in E> Monroe County, WEST VIRGINIA (Bostic), SE> Goodhue and Fillmore Counties, MINNESOTA (Laudon), and E> Brown and SE> Waukesha Counties, WISCONSIN (Line), June 27 to July 10.

OAT STEM RUST (Puccinia graminis f.sp. avenae) - First observed in experimental oat plot in east-central MINNESOTA, June 12. At this time, 5 pustules observed on 3 leaves. Spread from research facilities seem unlikely as another center of similar age found in Scott County, Minnesota (Laudon, Schulz), June 26. Third center of similar age found in Sibley County, July 6. Thus, infection very early (20 days earlier than normal), and nearly below detection threshold. If initial infection frequency had been near normal (1 pustule per 12 row m), epidemic would have occurred. Sufficient time remains with environment favorable for disease increase for late-planted oats to become severely rusted. With recent warm weather and morning dews, rust will increase rapidly in next few

weeks. Following races identified from collections received before July 10 (A.P. Roelfs, D.L. Long):

Area	Number of collections	Number of Isolates of Oat Stem Rust Races								
		NA-1	NA-2	NA-3	NA-5	NA-7	NA-16	NA-24	NA-27	NA-29
FL	2								6	
TX> South	81	12	2	4	9	1	6		186	11
TX> North	33	12						6	74	

RYE STEM RUST (Puccinia graminis f.sp. secalis) trace in rye in Scott and Olmsted Counties, MINNESOTA, June 27 to July 10. (Laudon, Schulz).

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) trace on susceptible winter wheat trap plots in southwestern NEBRASKA and western KANSAS around June 27. Traces found about July 4 in central SOUTH DAKOTA winter wheat fields (Jon) and southern MINNESOTA trap plots of susceptible Baart. Rapid increase past week indicates conditions favorable for disease increase where inoculum available. Following races identified from collections received before July 10 (A.P. Roelfs, D.L. Long):

Area	Number of Collections	Number of Isolates of Wheat Stem Rust Races										
		11	15		17		29	113		151		
		RCM	TDM	TNM	HDL	HNL	HJC	RPQ	RTQ	QCB	QFB	QSH
AL	4	7					3					
FL	1				1	2						
GA	6									1	16	
LA	2									6		
OK	3		3	2	1							3
TX> South	11			1	1		3	1	3		9	
TX> North	2	3			3							
MX> Cd Obregon	6				2	4	9				3	

NORTH DAKOTA - First wheat stem rust of season. District> County= status on winter wheat [berry one-half formed] July 11: EC> Cass= trace in experimental plots at Casselton. (V.L. Jons).

For other cereal rusts, see p. 483-484.

INSECTS

GRASSHOPPERS - CALIFORNIA - District> County= status of Melanoplus devastator: Sierra Mountains> Calaveras= swarmed from Central Mountains and Foothill District, centering in Valley Springs area. Late nymphs swarmed from rangeland toward gardens, averaged 10-40 grasshoppers per 0.8 sq m, damage heaviest (estimated 10%) to olive, by July 9. Reports of destroyed gardens about 70 daily. Siskiyou-Shasta> Siskiyou= damage heavy, especially Shasta Valley in Northern Great Basin District. Thousands of seagulls landing on highways covered with small nymphs, June 27. Adults still small percentage of population due to unusually cold weather retarding nymphal development. Swarming of fully developed adults in this area predicted about July 18-20. Most damage in garden. (C.S. Papp).

WASHINGTON - District> County= mostly Melanoplus sanguinipes on turf, pastures, and rangeland: NE> Spokane= scattered infestations 0-30 per 0.8 sq m south and west of Cheney. All instars present, some controls applied; SE> Whitman=

scattered 2nd instar to adults, 0-20 per 0.8 sq m, scattered around Ewan, July 6. (D. Keim et al.). UTAH - District> County= grasshopper status: E> Carbon= damaged some corn fields; C> Juab and N> Tooele= damaged small grain fields (G.F. Knowlton); and Cache= moved into alfalfa fields from adjacent range and uncultivated lands, 5-7 per 0.09 sq m in marginal areas (D.W. Davis).

NEW MEXICO - District> County= grasshopper status on rangeland: SE> Lea= control program completed week ending July 6 and NE> Colfax and Harding= control began July 3. (G.L. Nielsen). COLORADO - District> County= hectares to be treated for grasshoppers: SE> Prowers, Bent, and Otero= about 34,000 ha; and EC> Washington= 3,237 ha. (R.I. Sullivan).

TEXAS - Grasshopper problems in north-central, High Plains, Rolling Plains, and St. Lawrence Valley areas. Over 4,000 ha in the Panhandle scheduled for treatment. Most problems in rangeland, but field margins damaged and some 4.0 to 16-ha cotton fields being destroyed. (J.A. Jackman). District> County= status: Brachystola magna on cotton June 26-28--Southern Low Plains> Fisher and Jones= serious in field margins (M.D. Finley); Southern High Plains> Martin= serious in field margins, Howard= increased; and St. Lawrence Valley area> damage heavy (D.G. Foster).

Texas - District> County= undetermined species on rangeland June 25-29: Blacklands> Williamson and Milam= migrated into crops and Bell and Falls= problems; Northern Low Plains> Hall, Motley, and Childress; Southern Low Plains> Knox; Cross Timbers> Throckmorton; Southern High Plains> Crosby; and Northern High Plains> Floyd= problems; Hale= populations light; Southern Plains Area> 200 maximum per 0.8 sq m; and Panhandle area> heavy, 404,687 ha to be treated; Northern High Plains> Deaf Smith= problems in sugar beets, Randall= problems in grapes and hay, and Carson= problems in gardens (R.E. Glodt et al.).

OKLAHOMA - District> County= grasshopper status week ending July 6: Panhandle> Ellis= heavy in rangeland; NE> Tulsa= moderate in gardens, light in soybeans and Washington= moderate to heavy in gardens; WC> Roger Mills= population 90% Melanoplus bivittatus and Melanoplus differentialis, counts 75 per 0.8 sq m in fencerows and pastures, moved into cotton with 4 per plant, completely defoliated 1 field and Custer= 15-25 per 0.8 sq m in fencerows and pastures; C> Seminole= moderate to heavy in most crops and Logan= heavy in cotton margins in Coyle area; EC> Pittsburg= heavy in many gardens and scattered pastures and Muskogee, Okmulgee, and NE> Wagoner= damage light in grassy area in soybeans; SC> Bryan= heavy in pastures, peanuts, and gardens and Coal= heavy in cotton, gardens, and pastures; and SE> Le Flore= moderate in pastures and McCurtain= heavy in crops, pastures, and gardens. (D.C. Arnold).

Oklahoma - District> County= current grasshopper status: NC> Major= 8-30 per 0.8 sq m in rangeland and 13 per 0.8 sq m in field of lovegrass; WC> Washita= damaged gardens; SC> Bryan= heavy in crops and pastures; NE> Washington= heavy in gardens and Craig= moderate to heavy in gardens; EC> Adair= heavy in pastures in some areas and Pittsburg= heavy in pastures and gardens; SC> Coal= heavy in crops, pastures, and gardens and Atoka= up to 60 per 0.8 sq m in weedy spots in meadows; EC> Pittsburg and SC> Johnston= heavy in meadows in some areas; and South Western area> damaged gardens and scattered damage to margins of cotton. (D.C. Arnold).

KANSAS - District> County= status: SW> Seward= M. bivittatus mating, June 11; south-central and southwestern areas> mostly M. sanguinipes adults with few M. differentialis adults (G.A. Salsbury, K.O. Bell, Jr.); NE> Pottawatomie=

control excellent in 1 alfalfa field margin, Leavenworth, Atchison, and Doniphan= averaged trace to 10 per 0.8 sq m of alfalfa (B.D. Hilbert); SW> Seward= mostly M. differentialis averaged 2 per 0.08 sq m in entire corn field [2 m tall] (K.O. Bell, Jr.); southeastern area> still damaged some soybean field margins (G.E. Lippert); SC> Edwards, Reno, and Stafford= averaged 0-8 per 0.8 sq m in 5 alfalfa fields but damage serious only in 1 field with retarded regrowth about 18 m from field edge (G.A. Salsbury); and EC> Wabaunsee= averaged 7 per 0.8 sq m in 1 alfalfa field (B.D. Hilbert).

NEBRASKA - District> County= grasshoppers per 0.8 sq m: E> Butler= mostly 3rd to 5th nymphal instars, 35-50+ (averaged 50) in 5 pastures in northeastern area, 15-25 (averaged 20) in roadside ditches, 0-5 (averaged 2) in border rows of row crops, and 40-50+ (averaged 45) in alfalfa (Lange); SW> Lincoln= nymphs and adults 10-17 in margins of 4 corn fields, averaged 12.5 per plant in border rows in another field, July 4 (Kozub), and currently mostly Ageneotettix deorum, and Aulocara elliotti 2nd to 5th instar, and M. sanguinipes 3rd instar to adult averaged 25 in pasture at North Platte (Campbell et al.), Perkins= mostly M. bivittatus and M. sanguinipes 2nd instar to adult, 5-50 (averaged 12) in roadside ditches, less than 1 to 15 (averaged less than 2) per 0.9 row m in border rows of corn fields (Peterson et al.).

NORTH DAKOTA - Many grasshopper species evident, 2nd and 3rd instars predominant, development 1st to 5th instar. District> County= status on rangeland, June 26-28: WC> McKenzie= populations averaged 5.4 per sq m in southern area. (C.G. Scholl).

IOWA - District> County= Melanoplus spp. status on corn July 3-5: C> Tama= feeding damage on border rows of 2 fields, Dallas= 30 per 0.8 sq m along 1 field, infested entire field, 5 per 0.8 sq m adjacent to second field, and WC> Guthrie= 4-15 per 0.8 sq m adjacent to 3 fields. (P. Bengston).

GYPSY MOTH (Lymantria dispar) - OHIO - District> County= adults in pheromone traps: SW> Montgomery= 4 taken July 10, and 2 on July 7 in same trap. Trap located 0.6 km from trap where 7 adults taken in 1978. More traps placed in area. (W.K. Roach).

NEW HAMPSHIRE - Gypsy moth increased in several parts of State. County= status week of July 2: Merrimack= infestation continued around periphery of original infestation, defoliation severe on median strip, especially aspen trees, of Interstate Highway 93; Carroll= defoliation severe on ridge tops for about 80 ha and additional infestations reported at Freedom; Belknap= additional infestations reported at Lake Winnepesaukee. Larvae scattered in several hectares in southern area and generally appear more common than in last 10 years. (Morse, Dyrkacz).

JAPANESE BEETLE (Popillia japonica) - INDIANA - District> County= adult status: NW> La Porte= reported as far north as La Porte (D.L. Matthew) and heavy in Indianapolis area (J. Clark). NEW HAMPSHIRE - First adult of season. County= status on grapes July 2: Strafford= collected at Durham. (Morse).

MEXICAN FRUIT FLY (Anastrepha ludens) - CALIFORNIA - District> County= status on pepper tree: Southern California> San Diego= 1 dead male specimen found in McPhail trap at San Ysidro, southern coast district, July 6. (C.S. Papp).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= counts per pheromone trap per day: C> Maricopa= 1-16 and SW> Yuma= 3-51, larvae on 1-6% of bolls. (J. Neff et al.).

SCREWWORM (Cochliomyia hominivorax) - Total of 8 cases reported from continental United States June 10-23 as follows: Texas 5 and Arizona 3. Total of 330 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 418 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 109,362,065 as follows: Texas 64,356,450; New Mexico 7,790,000; Arizona 37,215,615. Total of 802,267,042 sterile flies released within eradication zone of Mexico, June 3-23. (J.E. Novy, M.E. Meadows).

HAWAII PEST REPORT

New Island Record - A SLUG (Vaginulus plebeius) collected around potted ornamentals at Liliha (Honolulu), Oahu, June 29, 1979, by K.K. Teramoto. Determined by S.Y. Higa. (K.K. Teramoto).

Ornamentals - OLEANDER HAWK MOTH (Deilephila nerii) larvae active on certain plants at Paia, Maui, week ending July 6. Heavy defoliation of oleander on 15-hedge planting. Moderate to heavy damage and infestations on potted Vinca sp. (periwinkle) in nursery at Paia. New host record for Adenium obesum (desert rose). Larval feeding damage extensive at Kihei, Maui, May 14, 1979. (N. Miyahira, L.M. Nakahara).

Beneficial Insects - LANTANA HISPID (Uroplata girardi) heavy on roadside lantana from 152 to 366-m elevation at Ka'u, Hawaii Island, week ending July 6. (S. Matayoshi).

DETECTION

NEW COUNTY AND ISLAND RECORDS

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - MISSOURI - Maries, Jasper, Cape Girardeau, Greene, St. Charles, St. Louis, and Cole. (p. 492).

INSECTS

ASPARAGUS BEETLE (Crioceris asparagi) - OKLAHOMA - Payne. (p. 491).

A EULOPHID WASP (Tetrastichus julis) - VIRGINIA - Augusta, Mecklenburg, Appomattox, Campbell, and Halifax; WEST VIRGINIA - Berkeley, Hardy, and Wirt. (p. 493-494).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - WEST VIRGINIA - Greenbrier; VIRGINIA - Campbell. (p. 494).

AN ICHNEUMONID WASP (Lemophagus curtus) - VIRGINIA - Culpeper. (p. 494).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - INDIANA - Gibson. (p. 482).

SLUGS AND SNAILS

A SLUG (Vaginulus plebeius) - HAWAII - Oahu. (p. 498).

CORRECTIONS

CPPR 4(24):437-438 - ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola), STEWART'S WILT (Erwinia stewartii), and MAIZE DWARF MOSAIC VIRUS - INDIANA - Host stage column should read early whorl, midwhorl, early whorl, early whorl, midwhorl, midwhorl, early whorl, early whorl, early whorl, 2 leaves, early whorl, 2 leaves, early whorl, and early whorl.

CPPR 4(25):459 - ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - INDIANA - Host stage column should read early whorl, early whorl, early whorl, 2 leaves, early whorl, early whorl, early whorl, midwhorl, early whorl, early whorl, midwhorl, early whorl, and midwhorl.

CPPR 4(25):471-472 - GRASSHOPPERS - NORTH DAKOTA - "... 80 per 0.8 sq m ..." should read "... 120 per sq m ...." and "... 12-32 in alfalfa and grass meadows ...." should read "... 18-48 in alfalfa and grass meadows ...." Top of page 472 - "... cropland adjoining rangeland, marginal damage heavy, up to 50%." should read "... cropland adjoining rangeland, marginal damage heavy 15 m into fields." (C.G. Scholl).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (MM)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 7/2-8			BL	4					5						2		2		32				1	
CALIFORNIA																								
Bellota 7/8	14-34		BL							1														
Manteca 7/9	16-30		BL	2				2									2	9	2				3	
INDIANA (Counties)																								
Lagrange 7/5-11			BL	15					0							5	16			0				
Tippecanoe 7/5-11			BL	40					0							0	32			0				
KANSAS																								
Haviland 7/11-12			BL	20					12			trace				10		70			23			
Hays 7/6			BL	2					0			0				0		24			6			
MINNESOTA																								
Fergus Falls 7/4-10	6-33	trace	BL													14	5	9						
Le Sueur 7/4-10	11-31		BL	21												110	1	118					6	
MISSISSIPPI																								
Stoneville 7/6-12	20-33	66.8	2BL	18	1			9	3	34							15	248		9	346	16		
NEBRASKA																								
Aurora 7/4-10			BL	960													1448	24280						
Clay Center 7/6-12			BL	62			2		2							10	68	665			1			
OHIO (Counties)																								
Putnam 7/3-9			2BL	15	3											1	8	77					2	
Wayne 7/5-11			3BL	67													12	168						
WISCONSIN																								
Hancock 6/26-7/2			BL													55								
Lancaster 7/4-11			BL	1												2	2	15						

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Catolethrus fallax Boheman a weevil Det. D. Whitehead	larval adult	in stems of dried uva grass	Argentina	New York	NY
Hylurgops palliatus (Gyllenhal) a scolytid beetle Det. D.M. Anderson	larval adult	in dunnage	France	Jacksonville	FL
Phoracantha semipunctata (Fabricius) a cerambycid beetle Det. D.M. Anderson	larval pupal	in wood pallets of leather	Argentina	New York	NY
Pieris brassicae (Linnaeus) large white butterfly Det. D.M. Weisman	pupal	on vans of military household goods	Greece	Houston	CA
Urocerus gigas gigas (Linnaeus) a siricid wasp Det. D.R. Smith	larval pupal adult	in wood crates with machinery	West Germany	New York	NJ
Helicella conspurcata (Draparnaud) a helicid snail Det. R. Munkittrick	adult	on vans of military household goods	Italy	Houston	CA
Helicella caperata (Montagu) a helicid snail Det. R. Munkittrick	adult	on crates with helicopter parts	France	Dallas	TX
Helicella protea (Ziegler) a helicid snail Det. R. Munkittrick	adult	on vans of military household goods	Turkey	Houston	CA

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

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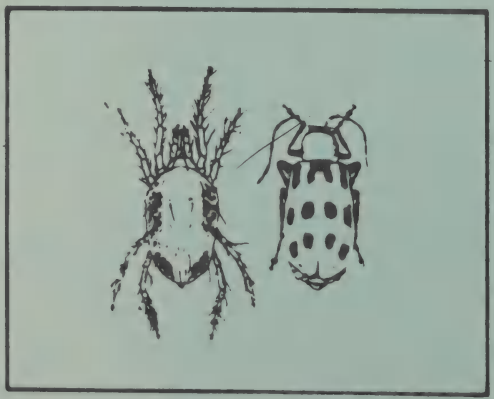
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Cooperative PLANT PEST REPORT

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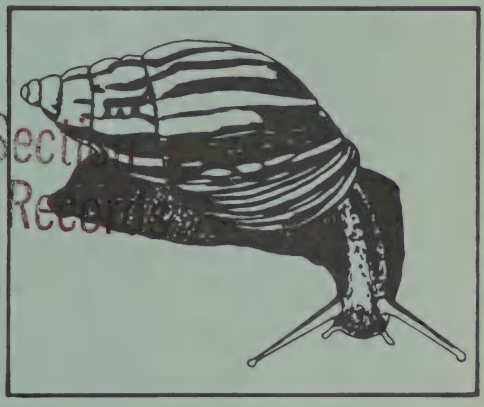
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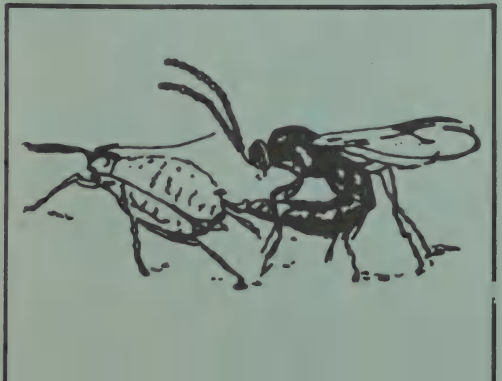
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No. 27

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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

OAT CROWN RUST (p. 511), BACTERIAL STRIPE BLIGHT (p. 512), and OAT STEM RUST (p. 521) severities 20% or more in northeastern areas of Nebraska.

Many peach trees lost in northern California due to PEACH X-DISEASE VIRUS. (p. 519).

GRASSHOPPER damage continued in southern and northern areas of California. Problems developing in southern two-thirds of Idaho. Severe on range in northern parts of Texas. Heavy in parts of middle eastern one-fourth of South Dakota. (p. 521-522).

Detection

For new county and other records see page 523.

Some First Occurrences of the Season

COMMON MAIZE RUST and CORN EYESPOT on corn in Minnesota. SOOTY STRIPE on sorghum in Kansas. SORGHUM MIDGE on sorghum in Missouri. CHARCOAL ROT on soybeans in Kansas.

Reports in this issue are for the week ending July 20 unless otherwise indicated.

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DISEASES

COMMON MAIZE RUST (Puccinia sorghi) - KANSAS - District> County= prevalence/severity in 1 corn field each, week ending July 13: SC> Edwards= trace/trace and Sedgwick= 40%/trace; current prevalence: EC> Anderson= 5%. (T. Sim, IV). MINNESOTA - First of season. District> County= prevalence on upper leaves of sweet corn [12 leaf] on variety in 1 commercial field each, June 27 to July 12: SE> Dodge= trace on Reliance, Mower= trace on XB2500, and Olmsted= trace on XB2500. (E.L. Stromberg). ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in number of commercial fields (f) or monitoring plots (m), week of July 9: ESE> Effingham= 100%/trace [14 leaves emerged] in 1f, Fayette= trace/trace [10 leaves emerged] in 1m; SW> St. Clair= trace/trace [12 leaves emerged] in 1m, and Jackson= trace/trace [12 leaves emerged] in 1m; and SE> Pope= trace/trace [12 leaves emerged] in 1m. (E.G. Jordan).

INDIANA - Common maize rust survey on corn, July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	not seen		midwhorl
NW> White	not seen		midwhorl
NW> Jasper	not seen		midwhorl
NW> Porter	not seen		midwhorl
NW> La Porte	not seen		midwhorl
NC> St. Joseph	not seen		early whorl
NC> Marshall	not seen		midwhorl
NC> Fulton	not seen		midwhorl
NC> Cass	not seen		midwhorl
NC> Carroll	trace	trace	midwhorl
C> Howard	not seen		midwhorl
C> Clinton	not seen		late whorl
C> Boone	trace	trace	late whorl

WEST VIRGINIA - District> County= common maize rust prevalence on corn July 10: E> Hardy= 10% in 8.1-ha field, Jefferson= 5% in 2 fields, and Randolph= trace in 1 field. (R.L. Williams).

COMMON SMUT (Ustilago maydis) - KANSAS - District> County= prevalence in 1 corn field each, week ending July 13: NE> Atchison, C> McPherson, SC> Pawnee, and Edwards= trace. (T. Sim, IV). MINNESOTA - District> County= prevalence on leaves and stalks of sweet corn [12 leaf] in 1 field each, June 27 to July 12: SE> Dodge= trace on 'Reliance', Olmsted= trace on 'XB2500', and C> Scott= trace. (E.L. Stromberg). ILLINOIS - District> County= prevalence on corn [host stage] in number of commercial fields (f) or monitoring plots (m), week of July 9: ESE> Effingham= 2% [14 leaves emerged] in 1f and Fayette= 3% [12 leaves emerged] in 1m; SW> Perry= 2% [14 leaves emerged] in 1f, Randolph= 1% [10 leaves emerged] in 1f, St. Clair= trace [12 leaves emerged] in 1m, and Jackson= trace [12 leaves emerged] in 1m; and SE> Pope= trace [10 leaves emerged] in 1m. (E.G. Jordan).

INDIANA - Common smut prevalence less than 1%, severity enough to cause plant loss in 5 of 13 corn fields, July 8-14. (R.A. Schall).

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	trace	midwhorl
NW> White	not seen	midwhorl
NW> Jasper	not seen	midwhorl
NW> Porter	trace	midwhorl
NW> La Porte	trace	midwhorl
NC> St. Joseph	not seen	early whorl
NC> Marshall	trace	midwhorl
NC> Fulton	not seen	midwhorl
NC> Cass	not seen	midwhorl
NC> Carroll	not seen	midwhorl
C> Howard	not seen	midwhorl
C> Clinton	not seen	late whorl
C> Boone	trace	late whorl

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - ILLINOIS - District> County= prevalence on corn [host stage] on variety in 1 monitoring plot each, week of July 9: SW> St. Clair= trace/trace [12 leaves emerged] on A632Ht x A619Ht, N28Ht x Mo17Ht, and B73Ht. (E.G. Jordan).

INDIANA - Anthracnose leaf blight on corn, July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	not seen		midwhorl
NW> White	not seen		midwhorl
NW> Jasper	not seen		midwhorl
NW> Porter	not seen		midwhorl
NW> La Porte	not seen		midwhorl
NC> St. Joseph	not seen		early whorl
NC> Marshall	not seen		midwhorl
NC> Fulton	trace	1	midwhorl
NC> Cass	not seen		midwhorl
NC> Carroll	not seen		midwhorl
C> Howard	not seen		midwhorl
C> Clinton	not seen		late whorl
C> Boone	not seen		late whorl

CORN EYESPOT (Kabatiella zeae) - MINNESOTA - First of season. District> County= prevalence/severity on lower leaves of sweet corn [12 leaf] on variety in 1 commercial field each, June 27 to July 12: SE> Dodge= 20%/trace on Reliance, Mower= trace/- on Reliance, Olmsted= 90%/trace to 20%, primarily on lower leaves on XB2500, Wabasha= trace/- on Reliance, and C> Scott= 90%/trace to 10%, primarily on lower leaves. (E.L. Stromberg).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - First of season. District> County= prevalence on sorghum week ending July 13: NE> Brown= 2% in 1 field; currently: EC> Franklin= 90% and Anderson= 90%. (T. Sim, IV).

CURVULARIA LEAF SPOT (Curvularia sp.) - KANSAS - District> County= prevalence on corn: EC> Anderson= trace in 1 field. (T. Sim, IV).

HOLCUS SPOT (Pseudomonas syringae) - NEBRASKA - Only disease apparent in district. District> prevalence/severity on corn [10-12 leaf] week ending July 14: NE> trace/trace. (S. Poe).

MINNESOTA - District> County= holcus spot prevalence/severity on lower leaves of sweet corn unless stated otherwise [host stage] in number of commercial fields (f), June 27 to July 12: SE> Dodge= 100%/trace [12 leaf] on 'Reliance' in 1f, Fillmore= 100%/trace [10 leaf] on 'Sugar Daddy' in 1f, Mower= 90%/trace [12 leaf] on 'Early Glow', 100%/trace to 3% on 'Reliance', and 100%/trace on 'XB2500' in 3f, and 90%/trace to 5% on dent corn [6 leaf] in 1f, Olmsted= 100%/trace [12 leaf] on 'XB2500' and 100%/trace to 2% on 'Jubilee' in 3f, Wabasha= 100%/trace to 5% [12 leaf] on 'Reliance' in 2f; C> Scott= 100%/trace to 3% [12 leaf] in 1f, Sibley= 100%/trace [12 leaf] in 1f; SC> Freeborn= 90%/trace [8-9 leaf] in 1f, Le Sueur= trace/- [12 leaf] in 1f, and Steele= 100%/trace to 3% [12 leaf] in 1f. (E.L. Stromberg).

INDIANA - Holcus spot on corn, July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	not seen		midwhorl
NW> White	not seen		midwhorl
NW> Jasper	not seen		midwhorl
NW> Porter	not seen		midwhorl
NW> La Porte	not seen		midwhorl
NC> St. Joseph	not seen		early whorl
NC> Marshall	not seen		midwhorl
NC> Fulton	not seen		midwhorl
NC> Cass	not seen		midwhorl
NC> Carroll	not seen		midwhorl
C> Howard	not seen		midwhorl
C> Clinton	trace	1	late whorl
C> Boone	trace	trace	late whorl

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - District> County= prevalence on sorghum week ending July 13: SC> Reno= trace in 1 field; currently: SE> Allen= trace in 1 field. (T. Sim, IV).

STEWART'S WILT (Erwinia stewartji) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 monitoring plot each, week of July 9: ESE> Fayette= 20%/1% [10 leaves emerged]; SW> Jackson= 25%/4% [12 leaves emerged]; and SE> Pope= 20%/2% [12 leaves emerged]. (E.G. Jordan).

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - District> County= prevalence in 1 sorghum field each, week ending July 11: C> McPherson, Barton, and SC> Sedgwick= trace; EC> Anderson= 1%; and SE> Allen= trace. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence in 1 corn field each, week ending July 13: C> McPherson= 1%, NC> Clay= 1%, SC> Pawnee= trace, EC> Anderson= 100%, NE> Atchison= 10%; on sorghum: NE> Brown, EC> Anderson, and C> McPherson= trace. Currently most common corn disease in east-central and southeastern areas. Excellent growing conditions allowed plants to outgrow symptoms. District> County= current prevalence on corn: EC> Franklin= none seen and Anderson= trace to 2%. (T. Sim, IV). ILLINOIS - District> County= prevalence on corn [host stage] on variety in 1 monitoring plot each, week of July 9: SW> St. Clair= 4% [10 leaves emerged] on N28Ht, and Jackson= 2% [12 leaves emerged] on Golden Cross Bantam. (E.G. Jordan).

NEMATODES - KANSAS - District> County= populations of a STUNT NEMATODE (Tylenchorhynchus sp.), a LESION NEMATODE (Pratylenchus sp.), and a DAGGER NEMATODE (Xiphinema sp.) per 100 ml of soil, respectively, in corn field week ending July 13: NC> Republic= 140-330, 10-40, and 0-10; plants severely stunted. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - COLORADO - District> County= status on corn: N> Sedgwick, Logan, EC> Phillips, Yuma, and Kit Carson= first generation larval infestations economic, infested 10-70% of plants. (S.E. Pilcher, W.M. Hantsbarger).

KANSAS - District> County= European corn borer on corn: SW> Finney, Ford, NC> Republic, EC> Franklin, SC> Stafford, and Pratt= second brood adults in light traps, up to 365 in 1 night in SC> Kiowa County (July 19) and 548 in Stafford County (July 18), Stafford= second generation eggs on 10% of plants in 1 field (D.D. Calvin), Sedgwick and Kiowa= eggs on 5-20% of plants in some fields (G.A. Salsbury), Kiowa and Stafford= pupation 25-100% in several fields (J.R. VanKirk); NE> Pottawatomie and EC> Shawnee= most of first generation pupated, egg masses on average of 1% of plants in 5 fields; SE> Neosho, Crawford, and Labette= first generation feeding damage on about 25% of plants, egg masses on average of 1% of plants (H.L. Brooks, G.A. Lippert). First generation on corn July 16-19 (K.O. Bell, Jr. et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SC> Pawnee	0-18	2.4 m to silk	3
SC> Pawnee	-	1.8 m	1
SC> Kiowa	4	silk	1
SC> Edwards	trace	1.8 m	1
SC> Edwards	0-6	1.5 m to tassel	2
SC> Stafford	0-70	1.5 m to tassel	4
NC> Cloud	0 to trace	1.8 m to silk	3
NC> Republic	trace to 6	1.8 m to tassel	2
NC> Washington	0	tassel to silk	2
EC> Franklin	100	silk	1
EC> Anderson	0	silk	2
SW> Finney	0-66	1 m to tassel	9
SW> Kearny	0-88	pretassel	2
SW> Stanton	0 to trace	pretassel	4

MINNESOTA - European corn borer adults decreased from previous period at most light traps week ending July 13, egg laying almost over. Pest and corn development delayed. Degree-day accumulations (base 10°C) ranged 472-528 in 3 southern districts. First generation eggs hatch at 388 degree-days, the 5 larval instars take additonal 415 degree-days before pupation at 803.3 degree-days. Surveys in 26 counties and 137 corn fields (D. Sreenivasam):

District>	Predominant stage	Borers per 100 plants	Infested plants per 100	Average height (cm)
WC>	1st instar	11	20	121
C>	1st instar	16	8	111
SW>	1st instar	12	32	127
SC>	1st and 2nd instar	27	12	144
SE>	1st and 2nd instar	6	8	116

WEST VIRGINIA - District> County= European corn borer on corn: E> Jefferson and Berkeley= infestations 4-72%, several fields treated by July 10 (C. Stuart), and Monroe= whorl damage on 6% of plants. (J.D. Hacker).

NEW YORK - District> County= European corn borer on corn: C> Cayuga= unusually heavy flights continued (Bogen, H.R. Wilson); W> Genesee= damaged early sweet corn [tassel] (Kline), Hudson Valley area> 1st instar larvae heavy on corn [pretassel] although first brood flight essentially completed (Straub); and western area> damaged 7 of 10 plants in some fields (Herendeen).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - KANSAS - First generation larvae heavier than expected but still below normal. District> County= status on corn: SW> Stevens= first generation infestations significant in 2 fields (L. Bucl) and Stevens, Seward, and Finney= mostly 3rd and 4th instars with some 5th instars July 12-18; SC> Edwards and Stafford= mostly 4th and 5th instars with some pupae except for 1 field in last county with mostly pupae; C> Barton= mostly 5th instars with few pupae (F.L. Poston et al.); and SC> Stafford= second generation eggs (red-bar stage) trace (G.A. Salsbury). Southwestern corn borer on corn July 16-19 (K.O. Bell, Jr. et al.):

District> County	Plants infested (%)	Host stage	Number of fields
SC> Pawnee	0	2.4 m to silk	3
SC> Pawnee	0	1.8 m	1
SC> Kiowa	15	silk	1
SC> Edwards	trace	1.8 m	1
SC> Edwards	0-3	1.5 m to tassel	2
SC> Stafford	0-13	1.5 m to tassel	4
NC> Cloud	0	1.8 m to silk	3
NC> Republic	0	1.8 m to tassel	2
NC> Washington	0	tassel to silk	2
EC> Franklin	0	silk	1
EC> Anderson	0	silk	2
SW> Finney	0-7	1 m to tassel	9
SW> Kearny	0	pretassel	2
SW> Stanton	0	pretassel	4

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - FLORIDA - District> County= status on sorghum and corn: C> St. Johns= counts heavy July 13 and control difficult on these cover crops at Hastings, some fields may need replanting, some growers will stop growing these as cash crops because insects too heavy in spring and summer and crops too costly to grow and treat. (R.B. Workman).

ARMYWORM (Pseudaletia unipuncta) - KANSAS - District> County= status on corn in number of fields: SW> Finney= larvae up to 9.53 mm long, 0-16 per 0.3 row m of crabgrass along field margins in circle-irrigated corn in Sandhill area

southwest of Garden City, some armyworm hatch continued (K.O. Bell, Jr.); SC> Edwards= some activity on grass along margins of irrigated corn (L. Bucl), Stafford, Edwards, Pawnee, and C> Barton= none found on crabgrass along margins of 7f (K.O. Bell, Jr.); SC> Pawnee= 0 in 3f, Kiowa= trace to 15 in 5f, and Edwards= trace in 1f, larvae up to 9.5 mm long on crabgrass along margins, hatch still underway, most just hatched in last county (G.A. Salsbury). No reports yet of larvae moving from grass to corn.(K.O. Bell, Jr.).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Area> status on corn: Statewide> larval damage extensive on late-planted corn; EC District> Oktibbeha County= adults increased in light traps past period. (R. Anderson). KENTUCKY - Second generation underway throughout most of State. District> County= larval status on corn [early whorl]: Midwestern> Union= 1st to 3rd instars light and/or spotty in 1 field. (P.E. Sloderbeck). FLORIDA District> County= larvae on sorghum: NW> Jackson= appeared on heads and 1-3 per plant in whorls of young sorghum at Greenwood July 11. (W.B. Tappan).

WESTERN BEAN CUTWORM (Loxagrotis albicosta) - KANSAS - District> County= status on corn: SW> Finney= adults increased at 2 locations (D.E. Mock, M.L. Shuman), and eggs but no larvae on 0-4% of plants [1 m to tassel] in 9 fields (K.O. Bell, Jr.), and Kearny and Stanton= eggs trace [pretassel] in 6 fields, 1 mass hatched in former county (D.E. Mock).

CORN ROOTWORMS (Diabrotica spp.) - KANSAS - District> County= status on corn: NE> Pottawatomie and EC> Shawnee= adults averaged 0.5-2.5 per plant [green silk] in 5 fields, SE> Crawford and Labette= NORTHERN CORN ROOTWORM (D. longicornis) and Labette= WESTERN CORN ROOTWORM (D. virgifera) trace. (H.L. Brooks, J.E. Lippert). Western corn rootworm adults on corn July 16-19 (K.O. Bell, Jr. et al):

District> County	Numbers per plant	Host stage	Number of fields
SC> Pawnee	0 to trace	2.4 m to silk	3
SC> Pawnee	7	1.8 m	1
SC> Kiowa	0	silk	1
SC> Edwards	0	1.8 m	1
SC> Edwards	0	1.5 m to tassel	2
SC> Stafford	0	1.5 m to tassel	4
NC> Cloud	0 to trace	1.8 m to silk	3
NC> Republic	0	1.8 m to tassel	2
NC> Washington	0	tassel to silk	2
EC> Franklin	-	silk	1
EC> Anderson	-	silk	2
SW> Finney	0	1 m to tassel	9
SW> Kearny	-	pretassel	2
SW> Stanton	0	pretassel	4

MISSOURI - First Diabrotica spp. adults of season in northwestern area (J. Jarman). District> County= larval range (average) per corn plant week ending July 14: C> Saline= 4-61 (15.1) in 1 field (G. Thomas).

GREENBUG (Schizaphis graminum) - KANSAS - District> County= counts on sorghum: SW> Stanton= averaged up to 150 on scattered plants but scarce in field overall; SE> Neosho, Crawford, and Labette= in only 1 field in first county, up to 1,000 per plant on few plants along margin. (H.L. Brooks, G.E. Lippert).

SORGHUM MIDGE (Contarinia sorghicola) - MISSOURI - First of season. Area> average per 20 sorghum heads week ending July 14: SE> 1. (F. Jones).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - NORTH DAKOTA - District> prevalence on spring wheat and durum wheat [boot to flowering] week of July 16: EC, C, and NE> trace. (V.L. Jons).

OAT CROWN RUST (Puccinia coronata var. avenae) - NEBRASKA - District> County= prevalence/severity on oats [three-fourths berry to milk] week ending July 14: NE> Cuming= 100%/20%, Dixon= 100%/35%, Cedar= 100%/10%, and Madison= 100%/20%. (S. Poe). NORTH DAKOTA - District> prevalence on oats [flower to milk] week of July 16: EC> trace. (V.L. Jons). WEST VIRGINIA - District> County= prevalence on small grains July 11: E> Jefferson= trace in 1 field and Randolph= trace in 36-ha field. (R.L. Williams).

LOOSE SMUT (Ustilago nuda) - NORTH DAKOTA - District> prevalence in spring wheat and durum wheat [heading to flowering] fields week of July 16: EC, C, NW, NC, and NE> trace. (V.L. Jons).

SPECKLED BLOTCH (Leptosphaeria (Septoria) avenaria) - NEBRASKA - District> County= prevalence/severity of imperfect stage on oats [three-fourths berry to milk] week ending July 14: NE> Cuming= 100%/20%, Dixon= 100%/35%, Cedar= 100%/10%, and Madison= 100%/20%. (S. Poe).

TAN SPOT (Pyrenophora trichostoma) - NORTH DAKOTA - Most prevalent foliar disease on spring and durum wheat. Severities moderate to heavy in some fields where seeded into heavy wheat residue, other severities light. (V.L. Jons).

District> County	Prevalence (%)	Severity (%)	Host Stage
EC> Cass	99	1-2	flowering to milk
EC> Traill	50-99	trace to 2	heading
EC> Steele	25-50	trace to 1	flowering
EC> Griggs	50-99	trace to 2	flowering to milk
C> Foster	1-50	trace to 1	flowering
C> Wells	50	trace to 1	flowering
C> Sheridan	1-50	trace to 1	flowering
WC> McLean (1 field)	99	20-30	flowering
NW> Mountrail	1-50	trace to 1	heading
NW> Ward	trace	trace	boot to heading
NC> McHenry	trace	trace	boot to heading
NC> Pierce (1 field)	99	15	flowering
NE> Towner	50	trace to 1	boot to heading
NE> Ramsey	50-75	1-2	flowering
NE> Walsh	50-99	trace to 1	boot to heading
NE> Grand Forks	50	trace to 1	flowering

TAKE-ALL (Gaeumannomyces graminis var. tritici) - MINNESOTA - District> County= prevalence on wheat [late flowering] June 27 to July 12: SE> Dakota= 1% in 1 planting (8 continuous years). (E.L. Stromberg).

XANTHOMONAS BACTERIAL STRIPE (Xanthomonas translucens) - NORTH DAKOTA - District> County= prevalence/severity on spring wheat [host stage] week of July 16: EC> Steele= 80%/trace to 5% [flower] and Griggs= 25%/1% [not given]. (V.L. Jons).

BACTERIAL STRIPE BLIGHT (Pseudomonas striafaciens) - NEBRASKA - District> County= prevalence/severity on oats [three-fourths berry to milk] week ending July 14: NE> Cuming= 100%/20%, Dixon= 100%/35%, Cedar= 100%/10%, and Madison= 100%/20%. (S. Poe). NORTH DAKOTA - District> County= prevalence/severity on oats [milk] week of July 16: EC> Steele= 99%/2-5%. (V.L. Jons).

WHEAT STRIATE MOSAIC VIRUS - NORTH DAKOTA - District> prevalence in spring and durum wheat [boot to flowering] fields week of July 16: EC, C, NC, NW, and NE> trace. (V.L. Jons).

BARLEY YELLOW DWARF VIRUS - NORTH DAKOTA - District> prevalence in barley and oat fields week of July 16: NW, NC, C, EC, and NE> trace. (V.L. Jons).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - MINNESOTA - Area> status week ending July 13: Statewide> trace in most areas, mostly in wheat. Expected heavy larval populations from adult catches in light traps not yet evident. (D. Sreenivasam).

ENGLISH GRAIN APHID (Macrosiphum avenae) - NEVADA - District> County= status on grain: W> Pershing= averaged 30+ per head on 28 ha at Lovelock. Many fields treated previous 2 periods. (G. Munk).

TURF, PASTURES, RANGELAND

INSECTS

ARMYWORM (Pseudaletia unipuncta) - MINNESOTA - District> County= status on bluegrass week ending July 13: NW> Roseau= infested about 300 ha for seed; larvae, about 0.64 cm long, economic, averaged 5+ per 0.09 sq m. (D. Sreenivasam).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - One of most common diseases on alfalfa in central and south-central areas, week ending July 13. Defoliation indicated by asterisk. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
NC> Ottawa*	none seen		66
C> McPherson	2-10	light	30
C> Saline*	none seen		30-38
C> Ellsworth	trace	-	38
C> Barton	none seen		30
SC> Stafford*	10-100	moderate	38-56
SC> Pawnee*	50	light	56
SC> Edwards	10	light	51

District> County	Prevalence (%)	Severity	Host height (cm)
SC> Barber	10	light	38
SC> Harper	none seen		46
SC> Sedgwick	trace to 1	light	38
SC> Reno	10-15	light	38-61

SPRING BLACK STEM (Phoma medicaginis) - KANSAS - District> County= prevalence in alfalfa field [38 cm tall], field not yet cut for second time: SE> Allen= 90%. (T. Sim, IV).

LEPTO LEAF SPOT (Leptosphaerulina briosiana) - KANSAS - One of most common diseases on alfalfa in central and south-central areas, week ending July 13. Defoliation indicated by asterisk. (T. Sim, IV).

District> County	Prevalence (%)	Severity
C> McPherson	trace to 100	moderate
C> Saline*	100	moderate
C> Ellsworth	10-80	light
C> Barton	trace	-
NC> Ottawa*	100	heavy
SC> Stafford*	80	moderate
SC> Pawnee*	100	light
SC> Edwards	100	light
SC> Barber	100	moderate
SC> Harper	75	light
SC> Sedgwick	trace to 100	moderate
SC> Reno	100	light

Kansas - District> County= current lepto leaf spot prevalence on alfalfa [38 cm tall]: SE> Allen= 90% in 1 field, second growth not cut yet.(T. Sim, IV).

COMMON LEAF SPOT (Pseudopeziza medicaginis) - KANSAS - District> County= prevalence on alfalfa [38 cm tall]: SE> Allen= 10% in field, second growth not cut yet. (T. Sim, IV).

YELLOW LEAF BLOTCH (Pseudopeziza jonesii) - KANSAS - District> County= prevalence on alfalfa, week ending July 13: SC> Stafford and Sedgwick= trace in 1 field each. (T. Sim, IV).

SOUTHERN ANTHRACNOSE (Colletotrichum trifolii) - KANSAS - District> County= prevalence on alfalfa week ending July 13: SC> Sedgwick= trace in 1 field. (T. Sim, IV).

INSECTS

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - NEW YORK - District> County= status on alfalfa: SW> Cattaraugus= heavy hatch expected in some areas, pinholes too heavy to count on some stems (Hudson); Western Plains area> symptoms evident but not economic (Herendeen).

POTATO LEAFHOPPER (Empoasca fabae) - KENTUCKY - Still above economic levels in some forage legume fields. District> County= number of fields above economic levels of fields (hectares) sampled: Midwestern> Christian= 1 of 8 (41.3 ha), Logan= 3 of 10 (60.3 ha), and Simpson= 0 of 24 (132 ha), and C> Hardin= 1 of 4 (32 ha). (P.E. Sloderbeck). NEW YORK - District> County= status on

alfalfa: Western Plains area and SW> Cattaraugus= potato leafhopper not significant (Hudson, Herendeen), adults 2 and nymphs 0 per 20 sweeps July 12 in latter county (Hudson) and W> Monroe= 5 per 30 beats (Herendeen).

PEA APHID (Acyrthosiphon pisum) - NEVADA - District> County= counts per sweep: S> Nye= 30-2,000 on 64.7 ha of seed alfalfa at Reese River with heaviest counts from lush growth (J. Berg, R. Lauderdale) and 20-40 on hay alfalfa in Pahrump Valley (D. Zoller).

GREEN STINK BUG (Acrosternum hilare) - KENTUCKY - Area> adult status: W> heavy in light traps in many parts, indicating possible threat to soybeans later in season. (P.E. Sloderbeck).

LYGUS BUGS (Lygus spp.) - NEVADA - District> County= counts per sweep on seed alfalfa: W> Pershing= nymphs and adults averaged 50 on 117 ha at Lovelock with counts in few other fields near this level before treatment. (G. Munk, L. Stitt). ARIZONA - District> County= counts on alfalfa: C> Maricopa= nymphs 15-50 and adults 80-200 per 100 sweeps and SE> Graham= adults 300+ per 50 sweeps. (I. Pearson et al.).

GRASSHOPPERS - KENTUCKY - Melanoplus sp. nymphal damage more noticeable. District> County= status on forage legumes: Midwestern> Simpson= controls applied to field borders and waterways in 40.5-ha field. (P.E. Sloderbeck).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - KANSAS - District> County= prevalence on soybean roots week ending July 13: SC> Pawnee= trace in 1 irrigated field. (T. Sim, IV). INDIANA - Survey on soybeans, 1 field each, July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	none seen	7 nodes
NW> White	none seen	1 flower any node
NW> Jasper	none seen	7 nodes
NW> Porter	none seen	8 nodes
NW> La Porte	none seen	5 nodes
NC> St. Joseph	none seen	4 nodes
NC> Marshall	none seen	7 nodes
NC> Fulton	none seen	5 nodes
NC> Cass	none seen	7 nodes
NC> Carroll	none seen	1 flower any node
C> Boone	trace	1 flower any node
C> Howard	none seen	6 nodes
C> Clinton	none seen	1 flower any node

PHYLLOSTICTA LEAF SPOT (Phyllosticta sojaecola) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 9: E> Champaign= trace/trace [flowering] on Williams in 1m; ESE> Fayette= trace/trace [flowering] on Woodworth in 1m and Effingham= 50%/1% [6 nodes] in 1f; SW> Randolph= 20%/trace [6 nodes] in 1f, Perry= 10%/trace [7 nodes] in 1f, St. Clair= trace/trace [8 nodes] on Essex in 1m and Jackson= trace/trace [pods 0.5 cm] on Elf in 1m; and SE> Pope= trace/trace [flowering] on Kent in 1m. (E.G. Jordan).

SOYBEAN BROWN SPOT (Septoria glycines) - KANSAS - District> County= prevalence on soybeans: EC> Franklin= 100% in 1 field. (T. Sim, IV). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 9: E> Champaign= 100%/1% [flowering] on Amsoy 71 in 1m; ESE> Fayette= 100%/1% [flowering] on Clark 63 in 1m and Effingham= 100%/2% [6 nodes] in 1f; SW> Randolph= 100%/1% [6 nodes] in 1f, Perry= 100%/2% [7 nodes] in 1f, St. Clair= 100%/1% [flowering] on Elf in 1m, and Jackson= 100%/2% [pods 0.5 cm] on Beeson in 1m; and SE> Pope= 100%/4% [pods 0.5 cm] on Wells in 1m. (E.G. Jordan).

INDIANA - Soybean brown spot survey on soybeans, 1 field each, July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	trace	trace	7 nodes
NW> White	trace	trace	1 flower any node
NW> Jasper	48	5	7 nodes
NW> Porter	18	1	8 nodes
NW> La Porte	none seen		5 nodes
NC> St. Joseph	none seen		4 nodes
NC> Marshall	none seen		7 nodes
NC> Fulton	none seen		5 nodes
NC> Cass	none seen		7 nodes
NC> Carroll	none seen		1 flower any node
C> Howard	trace	1	6 nodes
C> Clinton	none seen		1 flower any node
C> Boone	trace	trace	1 flower any node

SPECKLED LEAF BLOTCH (Septoria tritici) - KANSAS - District> County= prevalence in 1 soybean field each, week ending July 13: C> McPherson= trace and SC> Kingman= 60%. (T. Sim, IV).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 9: E> Champaign= trace/trace [flowering] on Williams; SW> St. Clair= trace/trace [flowering] on Elf, and Jackson= trace/trace [flowering] on Williams; and SE> Pope= 100%/4% [flowering] on Elf. (E.G. Jordan).

CHARCOAL ROT (Macrophomina phaseolina) - KANSAS - First of season. District> County= prevalence in 1 irrigated soybean field each, week ending July 13: SC> Harvey= trace and Sedgwick= 30%. (T. Sim, IV).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Observed over wide area in central area on soybeans, week ending July 13. (T. Sim, IV).

District> County	Prevalence (%)	District> County	Prevalence (%)
C> McPherson	trace	SC> Kiowa	100
NC> Ottawa	80	SC> Kingman	trace
SC> Edwards	trace	SC> Harvey	30

Kansas - District> County= current soybean bacterial blight prevalence on soybeans: EC> Douglas= 100% in 1 field. (T. Sim, IV). NEBRASKA - District>

County= soybean bacterial blight prevalence/severity on soybeans [mostly 6 node to beginning bloom] week ending July 14: NE> Dixon= trace/5%, Cedar= 3%/10%, and Madison= 4%/10%. (S. Poe). ILLINOIS - District> County= prevalence/ severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plot (m), week of July 9: E> Champaign= trace/trace [7 nodes] on Essex in 1m; ESE> Fayette= 100%/3% [flowering] on Union in 1m; SW> St. Clair= 100%/2% [flowering] on Cutler 71 in 1m and Jackson= 100%/2% [pods 0.5 cm] on Amsoy in 1m; and SE> Pope= trace/trace [8 nodes] on Essex in 1m. (E.G. Jordan).

INDIANA - Soybean bacterial blight on soybeans, 1 field each, July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Severity (%)	Host stage
WC> Tippecanoe	66	1	7 nodes
NW> White	1	trace	1 flower any node
NW> Jasper	trace	trace	7 nodes
NW> Porter	trace	trace	8 nodes
NW> La Porte	2	trace	5 nodes
NC> St. Joseph	trace	5	4 nodes
NC> Marshall	none seen		7 nodes
NC> Fulton	none seen		5 nodes
NC> Cass	trace	trace	7 nodes
NC> Carroll	trace	trace	1 flower any node
C> Howard	trace	trace	6 nodes
C> Clinton	10	1	1 flower any node
C> Boone	80	5	1 flower any node

WILDFIRE (Pseudomonas tabaci) - KANSAS - District> County= prevalence on soybeans: EC> Anderson= 5% in 1 field. (T. Sim, IV).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - KANSAS - District> County= prevalence in 1 soybean field each, week ending July 13: C> Barton= trace and SC> Edwards= 10%. Current prevalence on soybeans: EC> Anderson= 5% and SE> Allen= 60%. (T. Sim, IV). ILLINOIS - District> County= prevalence/ severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 9: SW> St. Clair= 20%/1% [flowering] on Wells, and Jackson= trace/ trace [pods 0.5 cm] on Amsoy; and SE> Pope= trace/trace [pods 0.5 cm] on Corsoy. (E.G. Jordan).

SOYBEAN MOSAIC VIRUS - ILLINOIS - District> County= prevalence on soybeans [host stage] on variety in number of commercial fields (f) or monitoring plots (m), week of July 9: E> Champaign= trace [8 nodes] on Cutler 71 in 1m; ESE> Fayette= trace [flowering] on Union in 1m and Effingham= trace [6 nodes] in 1f; and SW> Randolph= trace [6 nodes] in 1f, St. Clair= trace [flowering] on Clark 63 in 1m, and Jackson= trace [pods 0.5 cm] on Amsoy 71 in 1m; and SE> Pope= trace [pods 0.5 cm] on Corsoy in 1m. (E.G. Jordan).

BEAN YELLOW MOSAIC VIRUS - INDIANA - Yellow mosaic on soybeans July 8-14 (R.A. Schall):

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	none seen	7 nodes
NW> White	none seen	1 flower any node
NW> Jasper	none seen	7 nodes
NW> Porter	none seen	8 nodes
NW> La Porte	trace	5 nodes
NC> St. Joseph	none seen	4 nodes
NC> Marshall	none seen	7 nodes
NC> Fulton	none seen	5 nodes
NC> Cass	none seen	7 nodes
NC> Carroll	none seen	1 flower any node
C> Howard	none seen	6 nodes
C> Clinton	none seen	1 flower any node
C> Boone	none seen	1 flower any node

SOYBEAN CYST NEMATODE (Heterodera glycines) - TENNESSEE - District> County= status on soybeans July 1-14: Delta> Dyer= infestations heavy, damage moderate to heavy in central area (B.G. Stafford); Western Rim> Cheatham= 7 of 30 fields infested; and Central Basin> Sumner= 2 of 33 fields infested (Harrison, Foster).

INSECTS

GARDEN WEBWORM (Achyra rantalis) - MISSISSIPPI - District> County= status: Lower Delta> Sunflower= larval damage economic to 2 ha of replanted soybeans. Controls planned. (L. Lambert).

PEANUTS

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= larvae of this species (50%), and CORN EARWORM (Heliothis zea) and TOBACCO BUDWORM (Heliothis virescens) (50%), per 0.9 row m of peanuts: C> Alachua and Levy= economic, 9-37, on 202 of 809.3 ha in western area, treatment needed on 202 ha.(R.B. Baker).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - MISSISSIPPI - District> County= status on cotton: EC> Oktibbeha= numbers and damage increased slightly past period. Populations light in other areas. (R. Anderson). TENNESSEE - Area> average punctured squares: Western> 0-4%, light in 40 fields across southern tier of counties, will probably increase as season progresses. (J. Locke).

BOLLWORMS (Heliothis spp.) - ARIZONA - District> County= BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) on cotton: C> Maricopa= eggs 2-10 and larvae 2 per 100 sweeps; SW> Yuma= a few eggs and Graham= a few larvae. (P. Gomez et al.). MISSISSIPPI - Cotton needs hot, dry weather; rains continued to delay growth of already late crop. Area> status on cotton: Statewide> Heliothis spp. eggs and larvae still very light, no indication of second generation. (J. Hamer). District> County= status on cotton: Lower Delta> Washington= insect pressure very light. Bollworms in few fields but most fields very clean. Eggs averaged 284 per 0.4 ha but in only 50% of fields surveyed. Larvae averaged 40 per 0.4 ha. (R.E. Anderson).

TARNISHED PLANT BUG (Lygus lineolaris) - MISSISSIPPI - Area> status of this species and COTTON FLEAHOPPER (Pseudatomoscelis seriatus) on cotton: Delta and northern> caused major problems, isolated fields treated past week. District> County= current tarnished plant bug average per 0.4 ha of cotton: Lower Delta> Washington= 1,942, most important insect present. (R.E. Anderson).

TOBACCO

DISEASES

BLUE MOLD (Peronospora tabacina) - TENNESSEE - District> County= status on tobacco: East Tennessee> Johnson= problems especially in this area, outbreak probably due to cool, moist spring and summer. (T. Bruce).

INSECTS

TOBACCO BUDWORM (Heliothis virescens) - FLORIDA - District> County= status on tobacco: NE> Suwannee= average of 5.2% on June 27 down to 3.4% on July 11 in untreated 2-ha plot at Live Oak, and northern area> very light in tobacco region, lightest for June to July in 24 years, probably due to cool weather in May when temperatures averaged 1-2°C below normal. (W.B. Tappan).

TOBACCO HORNWORM (Manduca sexta) - FLORIDA - District> County= status on tobacco: C> Alachua= eggs and young larvae (up to 3rd instar) on 40% of plants in 2-ha planting at Alachua, this planting on 10-day spray schedule (R.B. Baker); NE> Suwannee= decreased from average of 7.8% on June 27 to 2.6% on July 11 in untreated 2-ha plot at Live Oak; northern area> very light in tobacco region, lightest for June to July in 24 years, probably due to cool weather in May when temperatures averaged 1-2°C below normal. (W.B. Tappan).

GREEN PEACH APHID (Myzus persicae) - FLORIDA - District> County= averages per tobacco plant: NE> Suwannee= about 130 on July 11 (threshold at 100 per plant) in untreated 20-ha plot at Live Oak. (W.B. Tappan).

TOBACCO THRIPS (Franklinella fusca) - FLORIDA - Continued to decrease. District> County= average per tobacco bud: NE> Suwannee= from 1.6 July 9 to 1.1 July 16 in untreated 2-ha plot at Live Oak. (W.B. Tappan).

MISCELLANEOUS FIELD CROPS

INSECTS

SUNFLOWER MOTH (Homoeosoma electellum) - KANSAS - District> County= status on sunflowers [full bloom]: C> Dickinson= adults trace and larvae 0 (B.D. Hilbert), and SC> Kiowa= larvae 3-4 per head on 10% of heads (K.O. Bell, Jr.).

SUNFLOWER BEETLE (Zygogramma exclamationis) - MINNESOTA - District> County= larvae and adults in sunflowers week ending July 13: NW> Polk= 30-40 per plant and up to 5 per 100 plants in fields monitored since mid-June in northwestern area, field completely recovered without spraying, 32-ha field treated; Clearwater, Mahnomen, Marshall, Norman, and Roseau= 18 (ranged 0-53) per plant and averaged 6 per 100 plants, leaf feeding up to 30% in some fields. (D. Sreenivasam).

POTATOES, TOMATOES, PEPPERS

DISEASES

ALTERNARIA EARLY BLIGHT (Alternaria solani) - WEST VIRGINIA - District> County= status on potato variety July 10: E> Hardy= heavy infection (60-70% defoliation) on Irish Cobbler in 0.2-ha field, heavy infection (30-40% defoliation) on Kennebec in 0.2-ha field. (R.L. Williams).

COLE CROPS

INSECTS

IMPORTED CABBAGEWORM (Pieris rapae) - NEW YORK - District> County= status on vegetables: W> Ontario and Yates= eggs hatched, many small larvae found, larvae 52 per 40 plants with 75% of plants infested with at least 1 larva in 1 field, little damage seen (Pedersen); Capitol District area> eggs and larvae evident in cauliflower, cabbage, broccoli, and brussel sprouts, damage to date minimal (Cuniglio).

GENERAL VEGETABLES

INSECTS

ONION THRIPS (Thrips tabaci) - COLORADO - Area> counts per onion plant: Lower Arkansas Valley> 0-15. (F.C. Schweissing).

DECIDUOUS FRUITS AND NUTS

DISEASES

PEACH X-DISEASE VIRUS - CALIFORNIA - Yellow leaf roll reached epidemic proportions. District> County= status on peach: Sacramento Valley> Butte, Sutter, and Yuba= verified in 2,000+ trees, "hotspots" within area, 1 grower lost estimated $50,000 of trees, many other growers lost 100 or more trees valued at $100 or more per tree. (D. Chaney).

INSECTS

CODLING MOTH (Laspeyresia pomonella) - IDAHO - District> County= pheromone trap counts July 9-13: SW> Canyon= 89 from Central Cove. (C.R. Baird).

PEACHTREE BORER (Synanthedon exitiosa) - COLORADO - Area> status on peach July 9-16: Western> males heavy in pheromone traps in some orchards. (A.J. Merlino).

APPLE MAGGOT (Rhagoletis pomonella) - MINNESOTA - District> County= adults trapped for first time week ending July 13: EC> Ramsey= 2 at North Saint Paul, and Hennepin= 3 in western area. (D. Sreenivasam). NEW YORK - District> County= status: W> Wayne= emergence increased at indicator abandoned orchard (Beers) and SE> Columbia= first trapped in commercial block July 10 (Ophardt).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - MISSISSIPPI - District> County= adults per head on cattle: EC> Oktibbeha and Noxubee= still stable, 25-100+. (R. Anderson). FLORIDA - District> County= averages per head on cattle: C> Alachua= 400 in small herd at Newberry, July 12. (D. Boyd).

MOSQUITOES - MINNESOTA - Recent hot, humid weather prompted heavier adult emergence. Area> biting species in order of abundance; adult light trap collections; and larval collections week of June 30 to July 6: Metropolitan Mosquito Control district> Aedes vexans, Aedes stimulans, and Aedes trivittatus; A. vexans 56%, Coquillettidia perturbans 35%, and Aedes cinereus 1%; and A. vexans 30%, A. cinereus 14%, and Aedes spp. 14%, lighter than previous period due to lack of rain; controls for adults applied in several areas. (D. Sreenivasam).

LONE STAR TICK (Amblyomma americanum) - KANSAS - New county record. District> County= status on Homo sapiens (human): EC> Douglas= collected near Baldwin, July 15, 1979. Collected and determined by S.C. White. (K.O. Bell, Jr.).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A MYMARID WASP (Anaphes flavipes) - INDIANA - District> County= recoveries of 20+% parasitism of Oulema melanopus (cereal leaf beetle) eggs from individual oat fields: C> Bartholomew= 100% in Clifty Township June 13. New county records. C> Morgan= 73% in Jefferson Township, July 14, 1979; SC> Monroe= 67% in Washington Township, June 11, 1979, and Brown= 50% in Washington Township, June 13, 1979; SW> Greene= 100% in Center Township, June 11, 1979; and WC> Owen= 88% in Wayne Township, June 15, 1979. All collected by R. Heaton. All determined by E. Huff. (T.L. Burger).

A EULOPHID WASP (Tetrastichus julis) - District> County= recoveries of 20+% parasitism of Oulema melanopus (cereal leaf beetle) larvae from individual oat fields, unless stated otherwise, May 30 to June 6: INDIANA - SC> Lawrence= 30% in Pleasant Run Township, OHIO - EC> Tuscarawas= 100% in Perry Township, Harrison= 66% in Rumley Township, 72% on wheat in Moorefield Township, and 36% in German Township. New county record. Jefferson= 9% on grasses in Mt. Pleasant Township, June 4, 1979, collected by K. Simeral, determined by V.E. Montgomery. Parasitism 50% in oat field in Mt. Pleasant Township. C> Pickaway= 44% in Scioto Township, and Knox= 100% on wheat in Wayne Township, 33% on wheat in Pike Township, and 21% on wheat in Miller Township; WC> Shelby= 100% in Greene Township. New county record. SE> Morgan= 100% in Morgan Township, June 4, 1979, collected by G. Sherer, determined by V.E. Montgomery. (T.L. Burger).

WEST VIRGINIA - E> Greenbrier= T. julis 62% on barley and 26% on rye in Irish Corner Magisterial District and SW> Jackson= 78% in Union Magisterial District. VIRGINIA - New county record. C> Powhatan= 14% in Spencer Magisterial District, June 1, 1979, collected by R. Bailey, determined by V.E. Montgomery. PENNSYLVANIA - SC> Adams= 35% on wheat in Mt. Joy Township. NEW JERSEY - New county record. S> Gloucester= 2% on barley in South Harrison Township, May 29, 1979. Collected by G. Garrison and K. Garrity, determined by V.E. Montgomery. (T.L. Burger).

AN APHIDIID WASP (Lysiphlebus testaceipes) - KANSAS - District> County= mummie of Schizaphis graminum (greenbug) averaged per plant: SE> Neosho= 9-10 on scattered plants along field border. (H.L. Brooks).

A PODAPOLIPOD MITE (Coccipolipus epilachnae) - WEST VIRGINIA - District> County= status of adult Epilachna varivestis (Mexican bean beetle) parasites: E> Jefferson= first release in State. Release of 25 adult beetles (about 10 adult mites per host) in snap and lima beans on farm. (C.C. Coffman).

FEDERAL AND STATE PROGRAMS

DISEASES

OAT STEM RUST (Puccinia graminis f.sp. avenae) - NEBRASKA - District> County= prevalence/severity on oats [three-fourths berry to milk] week ending July 14: NE> Cuming= 100%/20%, Dixon= 100%/35%, Cedar= 100%/10%, and Madison= 100%/20%. (S. Poe).

INSECTS

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - New county record and first find north of Vero Beach, Indian River County. District> County= collection data on grapefruit: S> Brevard= larvae and pupae collected from leaves at Melbourne, July 13, 1979, by C. Cunningham. Determined by J. O'Neal; confirmed by A.B. Hamon. Infested 19 other properties at Melbourne, 3-5 km from commercial citrus. (F.W. Mead).

GRASSHOPPERS - CALIFORNIA - District> County= status. Southern California> Los Angeles= Oedaleonotus enigma enigma still concern in Lancaster area between Southern Coast and High Desert districts, damage July 14-17 extended to windbreak trees, especially Cupressus arizonica (Arizona cypress); 80.9-121 ha of alfalfa destroyed in some areas in western one-half of Antelope Valley, alfalfa growth retarded in northwestern part of valley, some growers harvested 1.7 t per hectare; and several hundred grasshoppers per 0.8 sq m ate large areas of tumblewood and mustards, aerial sprays applied by growers. (G. Mork). San Joaquin Valley> Kern= grasshopper infestations tapering off. (J. Bridges). Siskiyou-Shasta> Siskiyou= Melanoplus devastator still active in many areas of Northern Great Basin district, infested 4,046.9-6,070.3 ha of alfalfa and grain in Butte Valley; averaged 27 per 0.8 sq m (40% loss on 101 ha) of timothy and clover hay 26 km northeast of Montague (D. Dougherty) and 39 per 0.8 sq m on 28 ha of irrigated alfalfa about 23 km northeast of Montague; winged adults of probably this species moved from dry areas into 28-ha alfalfa field in Scott Valley, some growers applied aerial sprays (F.D. Horn); populations decreasing and parasites present in some areas of county (J. Grisham).

NEVADA - District> County= Melanoplus sanguinipes adults (average) per 0.8 sq m week ending July 13: S> Mineral= 0-32 (8) on 4.0 ha of oats and barley (plants eaten to ground on field margins adjacent to alfalfa), 0-32 (10) on 182 ha of hay alfalfa at Whisky Flat, and 0-14 (5) on 260+ ha of hay alfalfa at Gabbs Valley. (R. Bechtel, R. Bradley).

IDAHO - District> County= status of mainly M. sanguinipes and Camnula pellucida on turf, pastures, and rangeland: From N> Idaho at Grangeville to SW> Owyhee at Murphy to E> Caribou at Soda Springs= problems developing, and SW> Washington and Adams= treatment completed on 10,117 ha along Middle Fork of Boise River and on 56,656.2 ha of the heavily infested 113,312 ha as of July 1. (R.J. Pollard).

NEW MEXICO - District> County= grasshopper status week ending July 13: NW> Valencia= very light in alfalfa field in Belen area east of Rio Grande River, but 25-105 per 25 sweeps, mostly nymphs, in 3 fields west of Rio Grande River (C. Heninger) and SE> Eddy= populations heavy, damaged cotton foliage in fields adjacent to weeds on fence rows and ditchbanks in northern area (J. Lopez).

TEXAS - District> County= Melanoplus differentialis status on cotton: Southern Low Plains> Fisher and Jones= caused problems July 3. (D.B. Foster). Undetermined species on rangeland July 3-6: Southern Low Plains> Mitchell and Scurry= economic (also damaged cotton field borders) July 5 (W.C. Jany); Southern Plains area> caused problems (also on crops) (J.F. Lester); Northern High Plains> Hemphill, Oldham, Randall, and Roberts= severe, and Gray and Sherman= light. (C.D. Patrick). Brachystola magna on cotton: Southern Low Plains> Fisher, and Southern High Plains> Howard= caused problems, and Edwards Plateau> Upton, and Southern High Plains> Martin= present July 5. (D.B. Foster).

SOUTH DAKOTA - District> County= counts per 0.8 sq m week of July 13: Most counties east of James River> subeconomic; C> Sully= up to 75 along Corps land, some economic infestations in northeastern area, Beadle= economic in spots throughout, worst in northwestern area with adjoining areas of NC> Spink and C> Hand Counties heavily infested, Hand= economic, up to 80+, some adjoining areas of Hyde County infested, Aurora= up to 75+ in northeastern part, spots elsewhere heavily infested, Hughes= some heavy infestations on Crow Creek Reservation and north of State Highway 34 up to 10 km, other areas along creeks infested, Brule= up to 35-40 along Missouri River; NC> Potter= infestation in western one-fourth, some new hatch in other areas, Campbell and Walworth= some spotted infestation throughout, Edmunds= infestation spotty, small insects indicate additional numbers expected, some sprayed, Spink= heavily infested Conde area, 5 townships sprayed, populations heavy in adjoining areas of Brown, NE> Day, and Clark Counties; EC> Davison= 15-200+, heaviest infestation in south-central area, Kingsbury= subeconomic levels; and SE> Charles Mix= up to 35-40 along Missouri River, Bon Homme and Yankton= some infestation along Missouri River and some tributaries, most areas subeconomic, and Douglas= infestation very spotted, hatch in many areas may raise levels. (M. McNamara).

MINNESOTA - District> County= grasshopper status week ending July 13: NW> southern one-half of Clay, WC> northern one-half of Wilkin, and central Chippewa= "hotspots" appeared. Mostly 1st and 2nd instar Melanoplus bivittatus and Melanoplus femurrubrum nymphs. Concentrated along small grain fields in scattered locations, averaged 15 per 0.8 sq m in fields and 20+ per 0.8 sq m in margins. (D. Sreenivasam).

JAPANESE BEETLE (Popillia japonica) - WEST VIRGINIA - District> County= adult status week ending July 13: E> Jefferson= heavy on wild grapes, smartweed, and jimson weed, feeding on corn light but damage may occur when corn begins to silk, and Hardy= fed on about 10% of corn foliage, some sweet corn in silk not damaged to date. Current status: E> Monroe= populations light and damage to foliage less than 1%. (J.D. Hacker). NEW YORK - First report of activity. District> County= date observed: Long Island> Suffolk= July 3. (Kowalsick).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton: SW> Yuma= infested 1-30% of 3,000 bolls and C> Maricopa= 2% infested bolls (P. Gomez et al.), 15 per pheromone trap per day at Buckeye and Gila Bend and 6 per pheromone trap per day at West Chandler, and SW> Yuma= 1-35 per trap per day (R. Gibbs et al.).

SCREWWORM (Cochliomyia hominivorax) - Total of 6 cases reported from continental United States June 24 to July 7 as follows: Texas 5 and New Mexico 1. Total of 197 cases confirmed in portion of eradication zone in Republic of Mexico, June 24-30. Total of 252 cases reported in Mexico south of eradication zone June 24 to July 7. Number of sterile flies released this period total 95,522,900 as follows: Texas 61,948,100; New Mexico 6,232,000; Arizona 27,342,800. Total of 547,516,499 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

DETECTION

NEW COUNTY RECORDS

INSECTS

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - Brevard. (p. 521).

A EULOPHID WASP (Tetrastichus julis) - OHIO - Jefferson and Morgan; NEW JERSEY - Gloucester; and VIRGINIA - Powhatan. (p. 520).

LONE STAR TICK (Amblyomma americanum) - KANSAS - Douglas. (p. 520).

A MEALYBUG (Paradoxococcus mcdanieli) - FLORIDA - District> County= collection data on unknown grass at nursery: S> Palm Beach= adults infested roots at Boynton Beach, March 28, 1979. Collected by W. Churchill and E. Nickerson. Determined by A.B. Hamon. Grass wild in environs of nursery. (W. Churchill).

A MYMARID WASP (Anaphes flavipes) - INDIANA - Monroe, Greene, Brown, Morgan, and Owen. (p. 520).

OTHER NEW RECORDS

INSECTS

A PODAPOLIPOD MITE (Coccipolipus epilachnae) - WEST VIRGINIA - Jefferson. (p. 521).

WEEDS

CARDOON (Cynara cardunculus) - CALIFORNIA - Extension of infestation. District> County= collection data: Sacramento Valley> Yolo= specimens of this noxious weed collected from highway median strip at Dunnigan by F. Carl, June 27, 1979. Identified by D. Barbe. (C.S. Papp et al.).

CORRECTION

CPPR 4(23):427 and 432 - AN ERIOPHYID MITE (Eriophyes vaga) - CALIFORNIA - "... collected from Juglans hindsii (Hind's walnut) by D. Cozzola ...." should read "AN ERIOPHYID MITE (Eriophyes n.sp.) - CALIFORNIA - ... collected from Juglans sp. (walnut) at San Jose by ...." (C.S. Papp).

LIGHT TRAP COLLECTIONS

	Temperature °C	Precipitation (mm)	Type of trap	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
BL = blacklight I = incandescent MV = mercury vapor O = other																								
ARIZONA																								
Mesa 7/9-15			BL	6						7						2		1		35			4	
FLORIDA																								
Gainesville 7/12-18			BL					3		2								1	2	2				
KANSAS																								
Haviland 7/13, 18, 19			BL	10						28						538		56				20		
Hays 7/13, 17			BL	0						0						0		4				0		
KENTUCKY (Counties)																								
Fayette 7/12-16			BL	1						2						0	8	46				3		
Union 7/12-18			BL	0												25		7				0		
MINNESOTA																								
Fergus Falls 7/11-17	6-27	22.4	BL	1												13	2	3						
Le Sueur 7/11-17	13-31	trace	BL	26												14	2	48					3	
MISSISSIPPI																								
Stoneville 7/13-19	22-34	0.25	2BL	23				11	6	38					2		21	237		21		88	13	
NEBRASKA																								
Aurora 7/11-17			BL	347			37			6							232	2186						
Dixon County 7/4-18			BL	62			11									56		586						
NORTH DAKOTA																								
Bismarck 7/3, 5, 9, 12			BL			19							127			3	23	367						
Fargo 7/5, 10, 12, 16			BL										9			12		7						
OHIO (Counties)																								
Putnam 7/10-16			2BL	15						1						1	17	166						
Wayne 7/12-18			3BL	171													48	1070						
TENNESSEE																								
Selmer 7/12-19			BL							6						16		9				1	10	
Springhill 7/13-19			BL							8						50		137				3		
TEXAS																								
College Station 7/5-10			BL	0	0				0	2				0	0		0	1		0	0	0		

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (mm)	Type of trap (BL - blacklight, I - incandescent, MV - mercury vapor, O - other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
WEST VIRGINIA (Counties)																								
Monroe 7/16			BL	6															17					
Putnam 7/13-15			BL																1					
WISCONSIN																								
Lancaster 7/12-16			BL	0													1	4	5					
Mazomanie 7/12-16			BL														3		3					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Acutaspis decorosa Ferris a diaspidid scale Det. S. Nakahara	adult	on leaves of Tillandsia plants in baggage	Mexico	Los Angeles	CA
Aleurocanthus husaini Corbett a whitefly Det. S. Nakahara	pupal	on leaves of Murraya from baggage	India	Kennedy Airport	OH
Diaphorina citri Kuwayama a psyllid Det. D.R. Miller	adult	on leaves of Murraya from baggage	India	Kennedy Airport	OH
Diaprepes abbreviatus (Linnaeus) West Indian sugarcane root borer Det. C.E. Miller	adult	on leaves of Dracaena plants from cargo	Puerto Rico	San Juan	NY
Orthotomicus erosus (Wollaston) a scolytid beetle Det. R.F. Bollinger	larval adult	in wood crates with marble	Italy	Charleston	SC
Phloeosinus rudis Blandford a scolytid beetle Det. D.M. Anderson	larval adult	in dunnage	Japan	Detroit	MI
Pissodes cembrae Motschulsky a weevil Det. D.R. Whitehead	adult	in wood pallets with nails	Japan	San Francisco	CA
Pissodes notatus Fabricius a weevil Det. D.R. Whitehead	adult	in wood crates with marble	Italy	New York	NJ

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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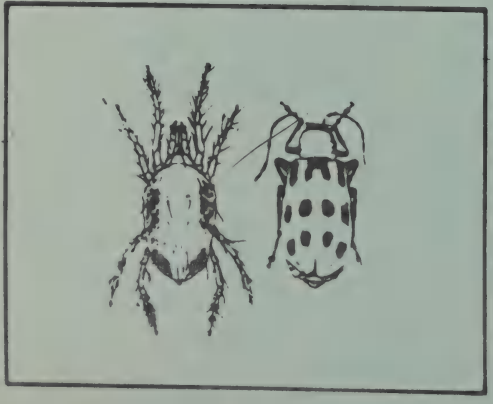
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

August 3, 1979

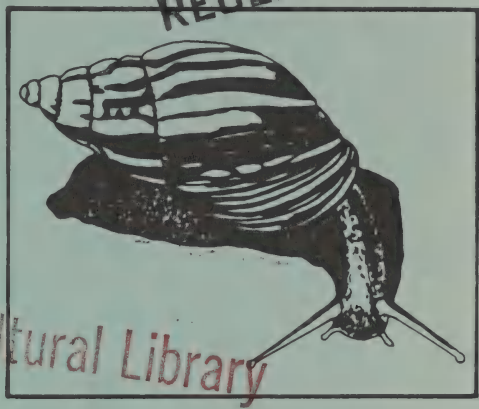
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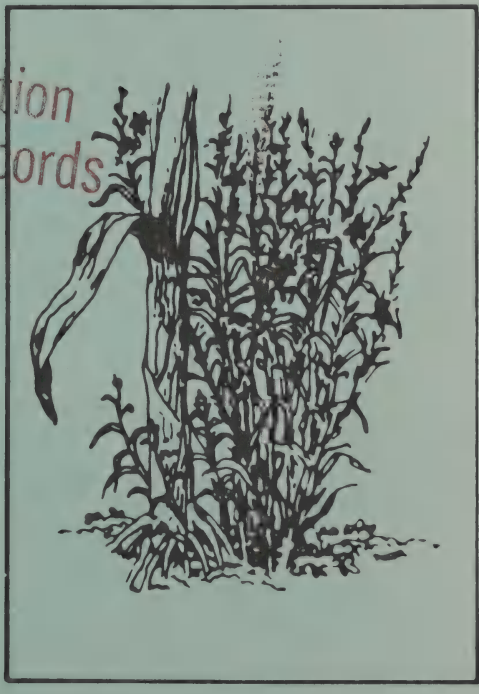
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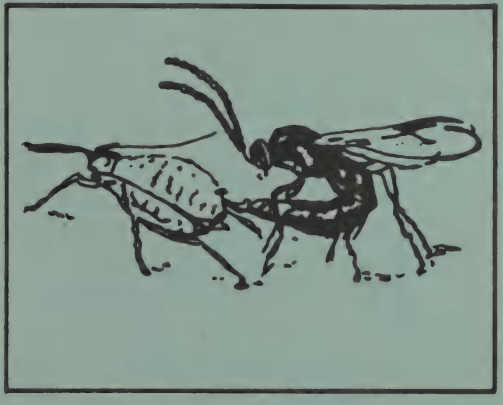
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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August 3, 1979 4(28):527-553

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

ARMYWORM "hotspots" in Nebraska, Wisconsin, and Michigan (p. 533), and on hay in North Dakota. (p. 537).

Sorghum plants dead due to CHINCH BUG in southeastern area of Nebraska. (p. 535).

DISEASE survey of winter wheat completed in Wisconsin. LOOSE SMUT decreased and TAKE-ALL increased over 1978. (p. 535-536).

EUROPEAN CORN BORER on wheat for third year in western New York. (p. 537).

GRASSHOPPER damage to crop and rangelands continued in Rolling Plains and St. Lawrence Valley, Texas. (p. 550).

VARIEGATED CUTWORM problems on potatoes in Illinois and Wisconsin. (p. 547).

Detection

New State records include PINEWOOD NEMATODE in Kansas and Arkansas. (p. 548).

For new county and other records see page 551.

Reports in this issue are for the week ending July 27 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

SOUTHERN LEAF BLIGHT (Helminthosporium maydis) - INDIANA - District> prevalence/severity on corn July 15-21: C, EC, SE, and SC> trace to 10%/trace to 2% on lower aging leaves in 5 of 13 fields. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen		tassel
C> Bartholomew	trace	trace	silk
C> Shelby	not seen		late whorl
EC> Henry	not seen		late whorl
EC> Wayne	not seen		late whorl
SE> Franklin	5	1	late whorl
SE> Dearborn	not seen		late whorl
SE> Ohio	not seen		midwhorl
SE> Switzerland	1	trace	late whorl
SE> Jefferson	not seen		late whorl
SE> Ripley	20	1	midwhorl
SE> Jennings	not seen		late whorl
SC> Jackson	10	2	midwhorl

HELMINTHOSPORIUM LEAF SPOT (Helminthosporium carbonum) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 16: E> Piatt= 20%/trace [14 leaves emerged], Ford= trace/trace [silks emerged], Livingston= trace/trace [16 leaves emerged], and NE> Grundy= trace/trace [16 leaves emerged]. (E.G. Jordan).

COMMON SMUT (Ustilago maydis) - NEBRASKA - First appearance of season. District> County= prevalence on corn [host stage] week ending June 30: C> Custer= 1-2% [7-8 leaf]. (S. Poe). ILLINOIS - District> County= prevalence on corn [host stage] in 1 commercial field each, week of July 16: E> Piatt= trace [14 leaves emerged], Livingston= trace [16 leaves emerged], Ford= trace [silks emerged], C> De Witt= trace [16 leaves emerged], W> McDonough= trace [silks emerged], NW> Putnam= trace [silks emerged], NE> De Kalb= trace [16 leaves emerged], Kendall= 4% [16 leaves emerged], and Grundy= 1% [16 leaves emerged]. (E.G. Jordan).

INDIANA - District> common smut prevalence on corn, July 15-21: C, EC, SE, and SC> less than 1%, but severe enough to cause losses in 5 of 13 fields. (R.A. Schall).

District> County	Prevalence (%)	Host stage
C> Madison	trace	tassel
C> Bartholomew	trace	silk
C> Shelby	not seen	late whorl
EC> Henry	trace	late whorl
EC> Wayne	not seen	late whorl
SE> Franklin	not seen	late whorl
SE> Dearborn	trace	late whorl
SE> Ohio	not seen	midwhorl
SE> Switzerland	trace	late whorl

District> County	Prevalence (%)	Host stage
SE> Jefferson	not seen	late whorl
SE> Ripley	not seen	midwhorl
SE> Jennings	not seen	late whorl
SC> Jackson	not seen	midwhorl

OHIO - District> County= common smut prevalence on corn [host stage] July 9-13: NW> Van Wert= trace [12 leaves emerged]. (R. Hite).

COMMON MAIZE RUST (Puccinia sorghi) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 16: E> Piatt= trace/trace [14 leaves emerged], Livingston= trace/trace [16 leaves emerged], Ford= trace/trace [silks emerged], C> DeWitt= trace/trace [16 leaves emerged], W> McDonough= trace/trace [silks emerged], NW> Putnam= trace/trace [silks emerged], NE> De Kalb= trace/trace [16 leaves emerged], Kendall= trace/trace [16 leaves emerged], and Grundy= trace/trace [16 leaves emerged]. (E.G. Jordan).

INDIANA - District> common maize rust prevalence/severity July 15-21: C, EC, SE, and SC> trace/trace in 7 of 13 corn fields. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	trace	trace	tassel
C> Bartholomew	trace	trace	silk
C> Shelby	trace	trace	late whorl
EC> Henry	trace	trace	late whorl
EC> Wayne	trace	trace	late whorl
SE> Franklin	not seen		late whorl
SE> Dearborn	not seen		late whorl
SE> Ohio	not seen		midwhorl
SE> Switzerland	not seen		late whorl
SE> Jefferson	not seen		late whorl
SE> Ripley	not seen		midwhorl
SE> Jennings	trace	trace	late whorl
SC> Jackson	trace	trace	midwhorl

OHIO - District> County= common maize rust prevalence/severity on corn [silk emerged] leaves: WC> Clark= trace/trace on 2 entries in monitoring plot. (R. Hite). WISCONSIN - Area> status on sweet and field corn leaves week ending July 20: Most of State> found in varying degrees. (O.L. Lovett).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 16: E> Piatt= 20%/trace [14 leaves emerged], Livingston= 20%/trace [6 leaves emerged], Ford= 50%/1% [silks emerged], C> De Witt= 10%/trace [16 leaves emerged], W> McDonough= trace/trace [silks emerged], NW> Putnam= trace/trace [silks emerged], NE> De Kalb= trace/trace [16 leaves emerged], Kendall= trace/trace [16 leaves emerged], and Grundy= 10%/trace [16 leaves emerged]. (E.G. Jordan).

INDIANA - District> anthracnose leaf blight prevalence/severity on corn July 15-21: C, EC, SE, and SC> trace/trace to 50%/5%, usually on lower aging leaves in 5 of 13 corn fields. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen		tassel
C> Bartholomew	5	trace	silk
C> Shelby	not seen		late whorl
EC> Henry	not seen		late whorl
EC> Wayne	trace	trace	late whorl
SE> Franklin	not seen		late whorl
SE> Dearborn	not seen		late whorl
SE> Ohio	not seen		midwhorl
SE> Switzerland	10	trace	late whorl
SE> Jefferson	not seen		late whorl
SE> Ripley	10	1	midwhorl
SE> Jennings	not seen		late whorl
SC> Jackson	50	5	midwhorl

OHIO - District> County= anthracnose leaf blight prevalence/severity on corn [host stage] leaves in 1 commercial field (f) or monitoring plot (m) July 9-13: C> Licking= 100%/5% [10 leaves emerged] on lower 2-3 leaves in large portions of 1f; July 16-20: SC> Scioto= 20%/trace [silk emerged] on lower 2-3 leaves in 1f, and 100%/5% [silk emerged] on lower 4 leaves in 1f, Brown= 100%/5% [silk emerged] on lower 3 leaves in 1f, SW> Clinton= 100%/5% [silk emerged] on lower 3-4 leaves in 1f, WC> Clark= trace to 100%/5% [10 leaves to silk emerged] on lower leaves on 10 of 24 entries in 1m. (R. Hite).

MAIZE DWARF MOSAIC VIRUS - NEBRASKA - Infected many corn fields week ending June 30 in the south district. Prevalence may reach 60% in some fields [6-8 leaf]. (S. Poe).

INDIANA - Maize dwarf mosaic virus symptoms prevalence trace to 5% in 5 of 13 corn fields in C, EC, SE, and SC districts July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Host stage
C> Madison	not seen	tassel
C> Bartholomew	not seen	silk
C> Shelby	not seen	late whorl
EC> Henry	not seen	late whorl
EC> Wayne	trace	late whorl
SE> Franklin	not seen	late whorl
SE> Dearborn	5	late whorl
SE> Ohio	not seen	midwhorl
SE> Switzerland	2	late whorl
SE> Jefferson	1	late whorl
SE> Ripley	not seen	midwhorl
SE> Jennings	trace	late whorl
SC> Jackson	not seen	midwhorl

OHIO - District> County= prevalence of maize dwarf mosaic virus symptoms in corn: SC> Scioto= 100% in monitoring plot, severely infected all 25 varieties; plot useless for monitoring purposes. (R. Hite).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEBRASKA - District> County= percent of corn plants with whorl feeding damage in number of fields (f) week ending July 19: SW> Keith and Perkins= 2-52% in 91f and Lincoln= 1-63% in 47f, mostly

1st and 2nd instars, few European corn borer bored into stalks (Kozub); and SE> Otoe= average 0% and 12.5% in 2f, mostly 2nd instar larvae, had not bored into stalk (Whitmore, Miller) and Fillmore and Thayer= 0-15% in 32f and 28% in seed field (Miller). Percent plants infested: SW> Dundy= 38-84% in 33f and 0-33% in 67f, C> Dawson= 38-56% in 14f and 0-32% in 86f, 2nd instar to pupa, majority 2nd and 3rd instar, in these 2 counties; and E> Saunders and Lancaster= 0-26% in 28f (Raun), 85% in sweet corn patch in latter county, larvae 3rd instar to pupa and 1 adult already emerged (Miller). IOWA - Area> status on corn: E> continued to cause damage. Larvae 2nd to 5th instar, extended second generation adult flight expected. (L.H. Townsend).

MINNESOTA - European corn borer larval "shotholing" evident in all fields, 50% economic level not reached in any field checked week ending July 20. Degree-day accumulations 611.1-638.9 (base 10°C) in 3 southern districts, indicates larvae in active feeding stage. Surveys in 19 counties and 82 corn fields (D. Sreenivasam):

District	Predominant instar	Borers per 100 plants	Infested plants per 100	Average height (cm)
WC	1st	12	4	94
C	1st to 4th	32	14	173
EC	1st to 3rd	69	30	150
SW	1st to 4th	17	8	142
SC	1st to 3rd	34	18	163
SE	1st to 5th	21	11	185

ILLINOIS - District> County= European corn borer status: C> Peoria= adult flights as far north as this county with 60 per blacklight trap per night in area for past period; S area> egg laying occurred. (K.D. Black). INDIANA - District> County= status on corn: N area> larvae mostly 4th and 5th instar with occasional 3rd instar in northern districts, NW> Starke= 1 recently pupated pupa in heavily infested field, July 18; and SW> Knox= males 40%, females 23% virgin, 27% newly mated, and 10% old mated of adults collected. (A. McCann).

WISCONSIN - First European corn borer adults of second flight expected in blacklight traps week ending July 20, peak not likely for 2-3 weeks. Warm conditions last period favored development. Late instar larvae more common than past week and cornstalk tunneling common. (O.L. Lovett). MICHIGAN - District> County= status: SW> Allegan= second generation eggs (M. Haft) much earlier than expected (R. Ruppel).

OHIO - District> County= percent European corn borer damage in individual corn fields based on 3 random samples of 10 plants each, July 16-18 (G.P. Walker):

District> County	Damage (%)	Host stage
C> Franklin	63	late whorl
C> Pickaway	13	silk
C> Pickaway	23	silk
C> Ross	20	silk
C> Ross	3	silk
SC> Pike	3	late whorl
SC> Pike	20	late whorl
SC> Scioto	less than 3	late whorl
SC> Scioto	3	silk

District> County	Damage (%)	Host stage
SC> Lawrence	less than 3	late whorl
SC> Lawrence	17	late whorl
SC> Gallia	7	silk
SC> Gallia	3	late whorl

VIRGINIA - European corn borer status on corn week of July 16 (S.P. Briggs):

District> County	Infested (%)	Host height (m)	Field size (ha)
W> Botetourt	0	0.46	3
W> Botetourt	0	0.61	4.9
W> Botetourt	12	1.8	32
W> Botetourt	44	1.5	6.1
W> Botetourt	26	1.8	4.1
W> Botetourt	30	1.2	8.1
C> Bedford	38	1.5	6.1
C> Bedford	28	1.2	4.1

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - NEW MEXICO - District> County= 1st instar larvae on week corn ending July 20: NE> Roosevelt= 30% of plants infested in 4 of 5 circles in Arch area. (G. Banks).

ARMYWORM (Pseudaletia unipuncta) - TEXAS - District> County= adults per trap per night July 20: Northern High Plains> Hale= 25-268. (G.B. Cronholm). NEBRASKA - Second (majority) to 3rd instar larvae in areas with grassy weeds throughout southern one-half of State, heaviest where foxtail just beginning to head week ending July 19. District> County= larvae per 0.09 sq m: C> Dawson= larvae, up to 42, defoliated foxtails between rows in 1 corn field and larvae began moving to corn. (Raun).

WISCONSIN - District> County= armyworm status on corn week ending July 20: EC> Sheboygan= localized outbreak in 1 field infested with quackgrass treated. Larvae up to 100 per 0.8 sq m at margin of field. Numbers below treatment threshold in most fields, scattered oat and grassy corn fields expected to need treatments. (O.L. Lovett). MICHIGAN - District> County= status: Upper Peninsula> Chippewa, Ontonagon, Delta, Houghton, NW> Leelanau, and NE> Alpena= severe on corn, small grain, alfalfa, and grass hays; EC> Sanilac= damaged oats and corn; and SC> Clinton and Calhoun= common on alfalfa. Weedy corn especially susceptible in southern counties. (R. Ruppel).

CORN EARWORM (Heliothis zea) - IDAHO - Populations slightly lighter than in 1978. District> County= larvae per 100 ears of corn [silk]: SW> Canyon= 180. (D.R. Scott). NEW MEXICO - District> County= status on corn week ending July 20: SE> Chaves= infested all sweet and field corn ears in 2 fields in Dexter area (G. Banks) and Dona Ana= eggs averaged 8 per ear on silks south of Hatch. (G. Nielsen). TEXAS - District> County= adults per trap per night by July 20: Northern High Plains> Hale= 0-65. (G.B. Cronholm).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - District> County= status: EC> Noxubee, Kemper, and Neshoba= 2nd to 6th instar larvae infested 95-100% of late corn [pretassel, 91-121 cm]. Damage heavy to whorls. (R. Anderson).

CORN ROOTWORMS (Diabrotica spp.) - NEBRASKA - NORTHERN CORN ROOTWORM (D. virgifera) adults in all southern counties from Dawson County east (Raun), first adult at Mead, July 16 (Mayo). District> County= larval averages per plant and infested corn plants week ending July 19: NE> Cedar= 3.5 and 30% in 1 field and Wayne= 7.5 and 100% in 1 field, root ratings mostly 5.0-6.0; larvae mostly 3rd instar in these 2 fields (Jarvi); SE> Otoe= lodging 5% in 1 field due to feeding (Whitmore, Miller). IOWA - Third instar Diabrotica spp. larvae present; some pupation. Area> status on corn: S and C> WESTERN CORN ROOTWORM (D. virgifera) males found. Peak emergence expected late July and early August. (L.H. Townsend).

WISCONSIN - First Diabrotica spp. adults of season. District> County= status on corn: SC> Jefferson= D. longicornis found July 13, and SW> Grant= D. virgifera found July 16. SC> Columbia= fully grown Diabrotica spp. larvae and pupae averaged 4 per plant in field week ending July 20. (O.L. Lovett). INDIANA - D. virgifera adults uncommon in northern district fields July 16-18. District> County= western corn rootworm on corn week of July 19: NE> Lagrange= adults 1 per stalk in only 1 field, trace if present in nearly all other fields. Western corn rootworm and D. longicornis adults in sticky trap collections: WC> Tippecanoe= 8 and 1 in 1979, and 0 and 3 in 1978. (R.W. Meyer).

SORGHUM MIDGE (Contarinia sorghicola) - TEXAS - Increased sharply in Blacklands and north-central areas. District> County= counts per sorghum head July 17-20: Cross Timbers> Comanche= 1-4 in 3 fields, Blacklands> Ellis and Navarro= increased, McLennan= maximum of 15, Collin and Hunt= maximum of 2, north-central area> economic in many fields, Edwards Plateau> Tom Green, and Southern Low Plains> Runnels= increased. (D.S. Moore et al.).

GREENBUG (Schizaphis graminum) - TEXAS - Still increased on sorghum in Crosby, Floyd, and Hale Counties. Parasitism evident and earlier than usual. District> County= counts on soghum July 17-20: Cross Timber> Comanche= light to moderate, Blacklands area> decreased, Southern High Plains> Crosby, and Northern High Plains> Floyd= increased, Hale= few parasitized. (D.S. Moore et al.). NEBRASKA - District> County= counts per sorghum plant week ending July 19: E> Cass and SE> Otoe= 12-150 in 4 fields, about 8% of greenbugs in 1 field in latter county parasitized by Lysiphlebus testaceipes (an aphidiid wasp). (Whitmore, Miller).

CORN LEAF APHID (Rhopalosiphum maidis) - OHIO - Seemed to be more common in central area than in south-central area. Percent corn infested based on 3 random samples of 10 plants each (G.P. Walker):

District> County	Infestation (%)	Host stage
C> Franklin	less than 3	late whorl
C> Pickaway	10	silk
C> Pickaway	less than 3	silk
C> Ross	11	silk
C> Ross	less than 3	silk
SC> Pike	17	late whorl
SC> Pike	100	late whorl
SC> Scioto	17	late whorl
SC> Scioto	97	silk
SC> Lawrence	63	late whorl
SC> Lawrence	73	late whorl
SC> Gallia	less than 3	silk
SC> Gallia	57	late whorl

AN APHID (Rhopalosiphum padi) - OHIO - Seemed to be more common in central than in south-central area. Corn survey based on 3 random samples of 10 plants each July 16-18 (G.P. Walker).

District> County	Infestation (%)	Host stage
C> Franklin	63	late whorl
C> Pickaway	87	silk
C> Pickaway	17	silk
C> Ross	23	silk
C> Ross	3	silk
SC> Pike	13	late whorl
SC> Pike	3	late whorl
SC> Scioto	3	late whorl
SC> Scioto	40	silk
SC> Lawrence	3	late whorl
SC> Lawrence	43	late whorl
SC> Gallia	7	silk
SC> Gallia	7	late whorl

CHINCH BUG (Blissus leucopterus leucopterus) - OKLAHOMA - District> County= status on sorghum week ending July 20: NE> Craig= heavy in scattered fields, SE> Choctaw= destroyed part of field [15 cm tall], and NC> Wagoner and EC> Muskogee= 5-10 per plant in several fields [blooming]. (D.C. Arnold).

NEBRASKA - Chinch bug nymphs and adults continued migration from wheat to corn and sorghum in southeastern and eastern districts week ending July 19. District> County= status: SE> Otoe= 2nd instar to adult, majority in 3rd or 4th instar; plants dead in 5 border rows of sorghum field adjacent to harvested wheat field with 70% of plants in next 5 rows dead, infestation moved 30 rows into field and averaged 400+ per plant at forward line of migration; in second sorghum field adjacent to harvested wheat, 25% of plants in first 5 rows dead, infestation moved 15 rows into sorghum. Adults and nymphs 300+ to 1,500+ (averaged 800+) per plant at forward line of migration. (Whitmore, Miller).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - NEBRASKA - District> County= prevalence/severity on wheat [milk to soft dough] week ending June 30: E> Cass= trace/trace; SE> Gage= 95%/5-20%, Saline= 100%/5-20%, Clay= 100%/10%, S> Webster= 100%/40-60%, Phelps= 100%/15%, Furnas= 100%/20%, SW> Red Willow= 100%/40%, Chase= 75%/5%, Keith= 90%/10%, Lincoln= 100%/20%, NW> Morrill= 30%/trace, Banner= trace/trace, Sioux= 30%/trace, Dawes= 30%/trace, Sheridan= 20%/trace, and Box Butte= 10%/trace. (S. Poe). WISCONSIN - District> County= prevalence/severity on winter wheat surveyed for 1979: SE> Racine= 19%/1%, Kenosha= 60%/2%, Walworth= 14%/1%, SC> Columbia= 86%/12%, Dane= 45%/4%, and Dodge= 78%/7%; averaged 50%/4%. (O.L. Lovett).

OAT CROWN RUST (Puccinia coronata var. avenae) - NEBRASKA - District> County= prevalence/severity on oats [one-half berry] week ending June 30: C> Custer= 15%/trace. (S. Poe).

For stem rusts, see page 549-550.

LOOSE SMUT (Ustilago nuda) - WISCONSIN - District> County= prevalence/severity on winter wheat surveyed for 1979: SE> Racine= 1%/6%, Kenosha= 1%/6%, Walworth= 1%/6%, SC> Columbia= 0, Dane= 2%/5%, Dodge= 0; averaged 1%/4% in 18 of 69 fields, prevalence one-half that of 1978; Dane County had 12% of heads infected in 1 field. (O.L. Lovett).

TAKE-ALL (Gaeumannomyces graminis var. tritici) - WISCONSIN - More serious in 1979 than in 1978 with 50% of winter wheat infected. Average statewide prevalence increased from 1% to 5% in 1979. Fields with 30% infection uncommon but occurred where rotations inadequate. Prevalence 50% in 2 fields in Columbia County. District> County= prevalence/severity on winter wheat surveyed for 1979: SE> Racine= 4%/6%, Kenosha= 3%/7%, Walworth= 5%/7%, SC> Columbia= 8%/18%, Dane= 3%/2%, and Dodge= 9%/6%; averaged 5%/8%. (O.L. Lovett).

WHEAT POWDERY MILDEW (Erysiphe graminis f.sp. tritici) - NEBRASKA - District> County= prevalence/severity on wheat [soft dough] week ending June 30: SE> Gage= 10%/5% and Clay= 10%/10%. (S. Poe).

WHEAT DOWNY MILDEW (Sclerophthora macrospora) - WISCONSIN - Area> status on winter wheat: SE area> disease in several fields. (O.L. Lovett).

SPECKLED LEAF BLOTCH (Septoria tritici) - NEBRASKA - District> County= prevalence/severity on wheat [milk to soft dough] week ending June 30: E> Cass= trace/5%, SE> Gage= 65%/20%, Saline= 10%/20%, Clay= 40%/20%, S> Webster= 5%/10%, Phelps= 20%/15%, Furnas= 5%/10%, SW> Red Willow= 20%/15%, Chase= 0%/0%, Keith= 20%/10%, Lincoln= 10%/15%, NW> Morrill= 0%/0%, Banner= trace/10%, Sioux= 40%/10%, Dawes= 20%/10%, Sheridan= 10%/15%, and Box Butte= 30%/5%. (S. Poe).

TAN SPOT (Pyrenophora trichostoma) - NEBRASKA - District> County= prevalence/severity on wheat [milk to soft dough] week ending June 30: E> Cass= trace/5%, SE> Gage= 0%/0%, Saline= 25%/10%, Clay= 70%/15%, S> Webster= 10%/10%, Phelps= 15%/ 10%, Furnas= 30%/15%, SW> Red Willow= 0%/0%, Chase= 30%/10%, Keith= 30%/5%, Lincoln= 5%/10%, NW> Morrill= 10%/5%, Banner= trace/5%, Sioux= 0%/0%, Dawes= 10%/ 5%, Sheridan= 80%/10%, and Box Butte= 80%/10%. (S. Poe).

SCAB (Fusarium spp.) - WISCONSIN - District> County= prevalence/severity on winter wheat surveyed for 1979: SE> Racine= 3%/1%, Kenosha= 4%/4%, Walworth= 3%/1%, SC> Columbia= 2%/1%, Dane= 4%/1%, Dodge= 1%/1%; averaged 3%/1%. (O.L. Lovett).

BACTERIAL STRIPE BLIGHT (Pseudomonas striafaciens) - NEBRASKA - District> County= prevalence/severity on oats [flowering]: NW> Sheridan= 30%/20% [one-fourth berry], Dawes= 70%/30%, and Box Butte= 5%/5%. (S. Poe).

WHEAT STREAK MOSAIC VIRUS - NEBRASKA - District> County= prevalence on wheat [milk to soft dough] week ending June 30: NW> Banner= 10%, Sioux= trace, Dawes= 35%, Sheridan= 15%, and Box Butte= 15%. (S. Poe).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - NORTH DAKOTA - District> County= larval, 1 cm long, counts (average) per 0.09 sq m of barley week ending July 20: EC> Cass= up to 4 (1) in 1 field. (C.G. Scholl). MINNESOTA - District> larvae per 0.09 sq m of small grains week ending July 20: C, SW, and SE> trace up to 1, and NW> up to 2 in lodged barley, noneconomic. (D. Sreenivasam). WISCONSIN - District> County= status on oats week ending July 20: NC> Taylor, Price, and NE> Marinette= populations heavy; SC> Dodge, Jefferson, and SE> Washington=

averaged less than 1 per 0.8 sq m with 2 per 0.8 sq m in several fields; SC> Dane, SW> Iowa, and Grant= counts similar on late oats [nearly mature] unattractive to larvae. (O.L. Lovett). MICHIGAN - See ARMYWORM in corn, page 533.

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEW YORK - Third year on wheat in western area. District> County= status on wheat July 18-19: W> Niagara, Livingston, and Orleans= larvae and pupae taken, nearly 5% of stems infested in latter county. (H.R. Willson).

WHEAT STEM MAGGOT (Meromyza americana) - IDAHO - District> County= percent damage to triticale: N> Boundary= 1% or less in 16-ha field. (B.W. Studer).

TURF, PASTURES, RANGELAND

INSECTS

ARMYWORM (Pseudaletia unipuncta) - NORTH DAKOTA - District> County= counts per 0.09 sq m week ending July 20: NC> McHenry= up to 10, damage heavy to native prairie hay meadows in Souris River Valley, south of Towner; some pupation, larvae 1-5 cm long; leaves completely stripped off main stem, unsuitable for hay; controls applied on about 610 ha July 18, with more hectares to be sprayed. (C.G. Scholl). WISCONSIN - District> County= status week ending July 20: EC> Sheboygan= populations heavy on orchardgrass. (O.L. Lovett).

BLUEGRASS BILLBUG (Sphenophorus parvulus) - UTAH - District> County= status on range and turf week of July 19: N> Cache= damage increased in lawns. Adults active at Providence and Logan (W.J. Hanson, G.F. Knowlton); worst year at Logan (D.W. Davis).

FORAGE LEGUMES

DISEASES

STEMPHYLIUM LEAF SPOT (Stemphylium botryosum) - KANSAS - District> County= prevalence on alfalfa week ending July 13: C> Ellsworth= trace in 1 field. (T. Sim, IV).

A CROWN ROT (Fusarium sp.) - KANSAS - District> County= prevalence on alfalfa [38 cm tall]: SE> Allen= trace, second growth not cut yet. (T. Sim, IV).

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= status on forage legumes week ending July 20: SE> Eddy and Chaves= larvae averaged 1-3 per 5 sweeps, hatch continued in Artesia area on about 1,000 ha. (L. Gholson). TEXAS - District> County= larvae and adults per 20 sweeps of alfalfa July 11 and 18, respectively: Trans-Pecos> El Paso= 31 and 7, and 15-71 and 2-16. (B.A. Lee). WISCONSIN - No problems statewide for first time this season week ending July 20. Area> larvae and adults in most alfalfa: SW> light, due to hatch of eggs laid late in spring. (O.L. Lovett).

FALL ARMYWORM (Spodoptera frugiperda) - NEW YORK - District> County= adults in traps: Long Island> Suffolk= taken in 3 blacklight traps, July 14-20 (Semel), C> Cayuga= 1 in blacklight trap, and S> Tompkins= in pheromone traps, July 26; first of season for last 2 counties for central part of State (Bogen).

ALFALFA LOOPER (Autographa californica) - WASHINGTON - District> County= adults (average per trap) trapped in forage legumes: W> Snohomish, Skagit, and Whatcom= 1,202 (109) July 2, total of 776 (70) week ending July 9. (P. Eide).

ARMYWORM (Pseudaletia unipuncta) - MICHIGAN - See ARMYWORM in corn, page 533.

BERTHA ARMYWORM (Mamestra configurata) - WASHINGTON - District> County= larvae on alfalfa hay: SE> Walla Walla= estimated at 10 per sweep July 12 in field near Walla Walla. (W. Gary).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= larvae on alfalfa: C> Maricopa= 16 per 3 sweeps and SW> Yuma= 10 per 100 sweeps. (W. Pilling et al.).

GARDEN WEBWORM (Achyra rantalis) - OKLAHOMA - District> County= status on alfalfa week ending July 20: EC> Muskogee and NE> Wagoner= still heavy in some areas, larvae in 90% of terminals in some fields and C> Kingfisher= heavy in some areas. (D.C. Arnold).

POTATO LEAFHOPPER (Empoasca fabae) - MINNESOTA - District> nymphal and adult averages per 100 sweeps of forage legumes week ending July 20: EC> 18, SW> 5, SC> 14, and SE> 33. (D. Sreenivasam). OHIO - District> County= counts per sweep of alfalfa [66 cm tall] July 16: C> Pickaway= 3 and SC> Scioto= 16, almost every stem showed yellowing. (G.P. Walker).

PEA APHID (Acyrthosiphon pisum) - MINNESOTA - Winged adults and nymphs increased on alfalfa in all districts. District> averages per 100 sweeps week ending July 20: NW> 1,900, C> 895 with 3,400 in 1 field in Stearns County, EC> 168, SW> 210, SC> 1,000, and SE> 800. Second alfalfa cutting almost over in all southern districts and underway in central districts. (D. Sreenivasam).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: C> Maricopa= nymphs 15-240 and adults 50-120, Pinal= nymphs 28-206 and adults 20-197, and SW> Yuma= adults 150, very heavy in some fields. (W. Pilling et al.). UTAH - District> County= counts per sweep of seed alfalfa week of July 19: C> Millard= nymphs 0-17.1 and adults 0-1.9 in western area, heaviest at Sugarville. (L. Haskell). TEXAS - District> County= nymphs and adults per 20 sweeps of alfalfa: Trans Pecos> El Paso= 17 and 31 on July 11, and 1-79 and 9-41 on July 18. (G.A. Lee).

REDLEGGED GRASSHOPPER (Melanoplus femurrubrum) - WISCONSIN - District> County= counts per 0.8 sq m of alfalfa week ending July 20: C> Waushara and Marquette= nymphs 2-6 and adults 1, and SW area> nymphs light, 1-4 in many alfalfa fields and field margins. (O.L. Lovett).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - ILLINOIS - District> County= prevalence on soybean [host stage] stems on variety in 1 monitoring plot each, week of July 16: NE> De Kalb= trace [flowering] on Amsoy, C> Logan= trace [pod 2 cm] on Corsoy, and NW> Putnam= trace [pod 0.5 cm] on Wells. (E.G. Jordan).

INDIANA - Phytophthora rot prevalence trace to 1% in 2 of 13 soybean fields in C, EC, SE, and SC districts, July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Host stage
C> Madison	not seen	7 nodes
C> Bartholomew	not seen	7 nodes
C> Shelby	1	flower below uppermost node
EC> Henry	not seen	7 nodes
EC> Wayne	not seen	1 flower any node
EC> Union	not seen	1 flower any node
SE> Dearborn	not seen	unifoliolate leaf
SE> Switzerland	not seen	4 nodes
SE> Jefferson	not seen	flower below uppermost node
SE> Ripley	not seen	8 nodes
SE> Scott	not seen	7 nodes
SE> Jennings	not seen	6 nodes
SC> Jackson	trace	flower below uppermost node

OHIO - District> County= phytophthora rot prevalence on soybean [host stage] roots in 1 commercial field each, July 3-13: NW> Henry= 1% of scattered plants [10 nodes], NW> Williams= 100% [10 nodes] in low areas NW> Van Wert= 1% of scattered plants [flowering]; July 16-20: SC> Scioto= 90% [flowering] in low areas. (R. Hite).

RHIZOCTONIA ROT (Rhizoctonia solani) - INDIANA - Prevalence trace in 2 of 13 soybean fields in C, EC, SE, and SC districts July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Host stage
C> Madison	trace	7 nodes
C> Bartholomew	not seen	7 nodes
C> Shelby	not seen	flower below uppermost node
EC> Henry	not seen	7 nodes
EC> Wayne	not seen	1 flower any node
EC> Union	not seen	1 flower any node
SE> Dearborn	not seen	unifoliolate leaf
SE> Switzerland	not seen	4 nodes
SE> Jefferson	not seen	flower below uppermost node
SE> Ripley	trace	8 nodes
SE> Scott	not seen	7 nodes
SE> Jennings	not seen	6 nodes
SC> Jackson	not seen	flower below uppermost node

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 16: NE> De Kalb= trace/trace [8 nodes] on Clark and C> Logan= trace/trace [flowering] on Woodworth. (E.G. Jordan).

INDIANA - Soybean downy mildew prevalence trace to 10%/severity trace in 6 of 13 soybean fields in C, EC, SE, and SC districts in July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen		7 nodes
C> Bartholomew	not seen		7 nodes
C> Shelby	trace	trace	flower below uppermost node
EC> Henry	not seen		7 nodes
EC> Wayne	10	trace	1 flower any node
EC> Union	1	trace	1 flower any node
SE> Dearborn	not seen		unifoliolate leaf
SE> Switzerland	not seen		4 nodes
SE> Jefferson	10	trace	flower below uppermost node
SE> Ripley	5	trace	8 nodes
SE> Scott	not seen		7 nodes
SE> Jennings	not seen		6 nodes
SC> Jackson	4	trace	flower below uppermost node

OHIO - District> County= soybean downy mildew prevalence/severity on soybean [host stage] leaves in number of commercial fields (f) or monitoring plots (m) July 3-13: C> Franklin= trace/trace [1 flower any node] in 1f, C> Licking= trace/trace [15 nodes to 1 flower any node] on 6 of 25 varieties in 1m, NW> Williams= 10%/trace to 9% [1 flower any node] in 1f; July 16-20: C> Ross= 100%/2% [flowering] in 1f, SC> Scioto= 100%/trace to 2% [flowering] in 1f, SW> Clinton= 100%/trace [flowering] in 1f, WC> Clark= trace to 100%/trace to 5% [12 node to pod 2 cm] on 17 of 25 varieties in 1m. (R. Hite).

SOYBEAN BROWN SPOT (Septoria glycines) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 16: NE> De Kalb= 100%/1% [flowering] on Corsoy in 1m, C> Logan= 100%/2% [pod 0.5 cm] on Amsoy in 1f, W> McDonough= 100%/4% [pod 0.5 cm] on Beeson in 1m, and NW> Putman= 100%/1% [pod 0.5 cm] on Amsoy 71 in 1m. (E.G. Jordan).

INDIANA - Soybean brown spot prevalence 10-95%/severity trace to 10% in 11 of 13 soybean fields in C, EC, SE, and SC districts July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	66	5	7 nodes
C> Bartholomew	54	1	7 nodes
C> Shelby	95	10	flower below uppermost node
EC> Henry	90	7	7 nodes
EC> Wayne	60	5	1 flower any node
EC> Union	10	trace	1 flower any node
SE> Dearborn	not seen		unifoliolate leaf
SE> Switzerland	45	8	4 nodes
SE> Jefferson	90	7	flower below uppermost node
SE> Ripley	99	7	8 nodes
SE> Scott	not seen		7 nodes
SE> Jennings	78	6	6 nodes
SC> Jackson	42	2	flower below uppermost node

OHIO - District> County= Soybean brown spot prevalence/severity (when given) on soybean [host stage] leaves in 1 commercial field (f) or monitoring plot (m) each, July 3-13: C> Franklin= 50%/trace [1 flower any node] in 1f, Licking= 100% [15 nodes to 1 flower any node] on lower 3 trifoliolates on all 25 varieties in 1m, NW> Henry= 100% [10 nodes] on lower 3 trifoliolates in 1f, Williams= 100% [1 flower any node] on lower trifoliolates in 1f, Paulding= 100% [8 nodes] on lower trifoliolates in 1f, Van Wert= 100% [flower below uppermost node] on lower 3 trifoliolates in 1f, and WC> Mercer= 100%/trace [8 nodes] on lower leaves in 1f; July 16-20: C> Ross= 100% [flowering] on lower 3 trifoliolates in 1f, SC> Scioto= 100% [flowering] on lower 3 trifoliolates in 1f, and Brown= 100% [flowering] on lower 3 trifoliolates in 1f, SW> Clinton= 100% [flowering] on lower 3 trifoliolates in 1f, and WC> Clark= 100% [12 node to pod 2 cm] on lower 3-9 trifoliolates on all 25 varieties in 1m. (R. Hite).

PHYLLOSTICTA LEAF SPOT (Phyllosticta sojaecola) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 commercial field (f) or monitoring plot (m) each, week of July 16: NE> De Kalb= 100%/1% [flowering] on Beeson in 1m, C> Logan= 100%/2% [flowering] on Clark in 1m, and De Witt= trace/trace [flowering] in 1f, W> McDonough= trace/trace [pod 2 cm] on Clark 63 in 1m, NW> Putnam= trace/trace [pod 0.5 cm] on Wells in 1m, and E> Piatt= 100%/1% [flowering] in 1f. (E.G. Jordan).

INDIANA - Phyllosticta leaf spot prevalence trace/severity trace in 2 of 13 soybean fields in C, EC, SE, and SC districts. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen		7 nodes
C> Bartholomew	trace	trace	7 nodes
C> Shelby	not seen		flower below uppermost node
EC> Henry	not seen		7 nodes
EC> Wayne	not seen		1 flower any node
EC> Union	not seen		1 flower any node
SE> Dearborn	not seen		unifoliolate leaf
SE> Switzerland	trace	trace	4 nodes
SE> Jefferson	not seen		flower below uppermost node
SE> Ripley	not seen		8 nodes
SE> Scott	not seen		7 nodes
SE> Jennings	not seen		6 nodes
SC> Jackson	not seen		flower below uppermost node

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 commercial field (f) or monitoring plot (m) each, week of July 16: NE> De Kalb= 100%/5% [8 nodes] on Kent in 1m, C> Logan= 100%/7% [10 nodes] on Essex in 1m, E> Piatt= trace/trace [flowering] in 1f, W> McDonough= 100%/10% [flowering] on Franklin in 1m, and NW> Putnam= 100%/2% [pod 0.5 cm] on Wells in 1m. (E.G. Jordan).

INDIANA - Soybean bacterial blight prevalence trace to 90%/severity trace to 30% in 8 of 13 soybean fields in C, EC, SE, and SC districts July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	90	3	7 nodes
C> Bartholomew	24	trace	7 nodes
C> Shelby	95	1	flower below uppermost node
EC> Henry	trace	trace	7 nodes
EC> Wayne	93	1	1 flower any node
EC> Union	80	1	1 flower any node
SE> Dearborn	not seen		unifoliolate leaf
SE> Switzerland	not seen		4 nodes
SE> Jefferson	5	trace	flower below uppermost node
SE> Ripley	not seen		8 nodes
SE> Scott	trace	trace	7 nodes
SE> Jennings	not seen		6 nodes
SC> Jackson	not seen		flower below uppermost node

OHIO - District> County= soybean bacterial blight prevalence/severity on soybean [host stage] leaves in 1 commercial field (f) or monitoring plot (m) each, July 3-13: C> Franklin= 50%/trace [1 flower any node] in 1f, Licking= 0-100%/trace to 5% [15 nodes to 1 flower any node] on 24 of 25 varieties in 1m, NW> Henry= 50%/10% [10 nodes] in 1f, Williams= 99%/trace [1 flower any node] in 1f, Paulding= 100%/trace to 5% [8 nodes] in 1f, and Van Wert= 100%/trace [flower below uppermost node] in 1f; July 16-20: SW> Clinton= trace/trace [flowering] in 1f and WC> Clark= 5-100%/trace to 5% [12 node to pod 2 cm] on 24 of 25 varieties in 1m. (R. Hite).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 16: W> McDonough= 100%/4% [pod 2 cm] on Corsoy, and NW> Putnam= 100%/2% [pod 0.5 cm] on Corsoy. (E.G. Jordan).

INDIANA - Bacterial pustule prevalence trace/severity 1% in 1 of 13 soybean fields in C, EC, SE, and SC districts. (R.A. Schall).

District> County	Prevalence (%)	Severity (%)	Host stage
C> Madison	not seen		7 nodes
C> Bartholomew	not seen		7 nodes
C> Shelby	not seen		flower below uppermost node
EC> Henry	not seen		7 nodes
EC> Wayne	not seen		1 flower any node
EC> Union	not seen		1 flower any node
SE> Dearborn	not seen		unifoliolate leaf
SE> Switzerland	not seen		4 nodes
SE> Jefferson	not seen		flower below uppermost node
SE> Ripley	not seen		8 nodes
SE> Scott	not seen		7 nodes
SE> Jennings	not seen		6 nodes
SC> Jackson	trace	1	flower below uppermost node

SOYBEAN MOSAIC VIRUS - ILLINOIS - District> County= prevalence on soybeans [host stage] on variety in 1 commercial field (f) or monitoring plot (m) each, week of July 16: NE> De Kalb= trace [flowering] on Amsoy 71 in 1m, C> Logan= trace [pod 2 cm] on Corsoy in 1m, and De Witt= trace [flowering] in 1f, E> Piatt= trace [flowering] in 1f, W> McDonough= trace [flowering] on Williams in 1m, and NW> Putnam= trace [flowering] on Woodworth in 1m. (E.G. Jordan).

INDIANA - Prevalence trace in 2 of 13 soybean fields in C, EC, S, and SC districts, July 15-21. (R.A. Schall).

District> County	Prevalence (%)	Host stage
C> Madison	not seen	7 nodes
C> Bartholomew	not seen	7 nodes
C> Shelby	not seen	flower below uppermost node
EC> Henry	not seen	7 nodes
EC> Wayne	trace	1 flower any node
EC> Union	trace	1 flower any node
SE> Dearborn	not seen	unifoliolate leaf
SE> Switzerland	not seen	4 nodes
SE> Jefferson	not seen	flower below uppermost node
SE> Ripley	not seen	8 nodes
SE> Scott	not seen	7 nodes
SE> Jennings	not seen	6 nodes
SC> Jackson	not seen	flower below uppermost node

OHIO - District> County= soybean mosaic virus symptoms prevalence on soybeans [host stage] in monitoring plots: C> Licking= trace [15 nodes to flowering] on 6 of 25 varieties, July 3-13, and WC> Clark= trace [12 node to pod 2 cm] on 2 of 25 varieties week ending July 20. (R. Hite).

BEAN YELLOW MOSAIC VIRUS - INDIANA - Prevalence trace on soybeans in 2 of 13 fields in C, EC, SE, and SC districts. (R.A. Schall).

District> County	Prevalence (%)	Host stage
C> Madison	not seen	7 nodes
C> Bartholomew	not seen	7 nodes
C> Shelby	not seen	flower below uppermost node
EC> Henry	not seen	7 nodes
EC> Wayne	not seen	1 flower any node
EC> Union	not seen	1 flower any node
SE> Dearborn	not seen	unifoliolate leaf
SE> Switzerland	not seen	4 nodes
SE> Jefferson	trace	flower below
SE> Ripley	not seen	8 nodes
SE> Scott	trace	7 nodes
SE> Jennings	not seen	6 nodes
SC> Jackson	not seen	flower below uppermost node

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - SOUTH CAROLINA - District> County= larval average per 0.3 row m on soybeans July 20: S> Jasper= 4 near Coosawhatchie, damage light to moderate in about 3 ha of 10-ha field; defoliated about 10-12%. (J.T. Walker).

MEXICAN BEAN BEETLE (Epilachna varivestis) - OHIO - Generally more common on soybeans in the more southern counties week ending July 20. Second generation seem to be underway. District> County= status: C> Ross= many pupae and almost all adults with very soft shells indicating new emergence. (G.P. Walker).

IMPORTED LONGHORNED WEEVIL (Calomycterus setarius) - NEBRASKA - District> County= adult status week ending July 19: E> Lancaster= moved out of bromegrass margin, completely defoliated 6 border rows, and moved 30 rows into soybean field in southern area. (Miller et al.).

POTATO LEAFHOPPER (Empoasca fabae) - OHIO - Adults and nymphs in every soybean field surveyed week ending July 20. Adult averages based on 100 sweeps of soybeans July 16-17 (G.P. Walker):

District> County	Adults per sweep	District> County	Adults per sweep
C> Franklin	0.10	SC> Pike	0.18
C> Pickaway	1.10	SC> Scioto	0.40
C> Pickaway	2.20	SC> Scioto	0.12
C> Ross	0.02	SC> Lawrence	0.22

PEANUTS

INSECTS

POTATO LEAFHOPPER (Empoasca fabae) - OKLAHOMA - District> County= counts per peanut plant: SC> Love= 2-10 (90% nymphs) in 9 fields. (D.C. Arnold).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - District> County= punctured squares per 100 cotton plants, July 13: Lower Valley> Cameron= 0-92, Hidalgo= 0-100, and Willacy= 0-75 (R.D. Parker, M.A. Rothrock). Still light on cotton in all areas with some heavier populations in lower Rio Grande Valley and Lower Gulf Coast, July 16-20 (J. Cocke et al.).

District> County	Pest stage or damage	Number	Unit sample
Lower Valley> Cameron	punctured squares	0-80	100 plants
Lower Valley> Hidalgo	punctured squares	0-28	100 plants
Lower Valley> Willacy	punctured squares	0-84	100 plants
Coastal Bend> Nueces	damaged squares	0-100%	
Coastal Bend> San Patricio	damaged squares	0-100%	
Upper Coast> Calhoun	damaged squares	0-93%	
Upper Coast> Matagorda	punctured squares	0-24%	

District> County=	Pest stage or damage	Number	Unit sample
Upper Coast> Wharton	punctured squares	0-12%	
Upper Coast> Fort Bend	punctured squares	0-5%	
Blacklands> Ellis & Navarro	punctured squares	1-34%	
Blacklands> Collin & Hunt	punctured squares	12-20%	
Edwards Plateau> Tom Green & Southern Low Plains> Runnels		3	trap per week
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	punctured squares	up to 6%	
Southern Low Plains> Fisher & Jones	punctured squares	2%	
Southern Low Plains> Knox	punctured squares	8%	
Southern Low Plains> Fisher & Jones	eggs	0-5	100 terminals

MISSISSIPPI - Boll weevil damage in cotton still relatively light statewide. District> County= status on cotton: EC> Winston, Noxubee, Monroe, and C> Rankin= problems. (R. Anderson).

BOLLWORMS (Heliothis spp.) - TEXAS - Status on cotton July 13 (G. Person, Jr. et al.):

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Lower Valley> Cameron	0-124	0-80	0-56	plants
Lower Valley> Hidalgo	0-89	0-41	0-36	plants
Lower Valley> Willacy	0-134	0-49	0-22	plants
Coastal Bend> Kleberg	0-29	0-4	0-11%	terminals
Coastal Bend> Nueces & South Texas> Jim Wells	0-78			terminals
Coastal Bend> Neuces & South Texas> Jim Wells		0-13		terminals

Texas - Bollworms increased in most areas July 16-20, eggs laid in Lower Gulf Coast and Blacklands area. BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) on cotton (J.W. Norman et al.):

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Lower Valley> Cameron	0-57	0-50	0-50	plants
Lower Valley> Hidalgo	0-70	0-45	0-39	plants
Lower Valley> Willacy	0-78	0-33	0-18	plants
Coastal Bend> Nueces	0-100+	0-14	0-21%	terminals
Coastal Bend> San Patricio	0-100+	0-18	0-19%	terminals
Upper Coast> Calhoun	0-84	0-9	0-27%	terminals
Upper Coast> Matagorda	1-58%	0-35%	0-20%	not given
Upper Coast> Wharton	0-56	0-44	0-28%	
Upper Coast> Fort Bend	5-27	1-10	0-8%	
Blacklands> Williamson & Milam	12-118			terminals
Blacklands> Williamson & Milam	0-14			terminals
Blacklands> Ellis & Navarro	2-14%	2-5	up to 12%	plants
Blacklands> Collin & Hunt	2-18	1-2		plants

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Blacklands> Collin & Hunt		1-2		terminals
Southern Low Plains> Fisher & Jones	0-9	0-3	0-10%	plants
Southern High Plains> Martin	0-1	0-2	0-7	terminals
Southern High Plains> Howard	0-2	0	0-6	terminals
Southern High Plains> Glasscock	0-11	0-2	1-6	terminals
Edwards Plateau> Reagan	0-4	0-1	0-1	terminals
Edwards Plateau> Upton	0-2	0-1	0	terminals
Trans-Pecos> El Paso	5-8	0-2%		terminals
Trans-Pecos> Reeves	10-40			terminals
Trans-Pecos> Pecos	10-30		2-8%	terminals
Trans-Pecos> Culberson	0-2	0-1		terminals
Southern High Plain> Midland	0-5	0-1		terminals

OKLAHOMA - District> County= Heliothis zea eggs and larvae per 100 cotton terminals: SW> Jackson, Tillman, and Harmon= 0-12. (D.C. Arnold). MISSISSIPPI - Heliothis spp. increased in light traps for last period and this period in "hill section." Eggs and larvae on cotton still noneconomic in most areas. District> County= status on cotton: EC> Monroe, Lower Delta> Yazoo, and C> Rankin= problems. (R. Anderson).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of cotton: C> Maricopa= 4-32 and 2-60, Pinal= 19 and 14, and SW> Yuma= 4-150 and 6-40. (C. Chandler). NEW MEXICO - District> County= averages per sweep of cotton week ending July 20: SW> Grant= nymphs and adults 6-10 in some fields, averaged 1-4 in lighter fields in Uvas Valley, and about 1 in valley area near Hatch. (F. Harris).

COTTON FLEAHOPPER (Pseudatomoscelis seriatus) - OKLAHOMA - District> County= counts per 100 cotton terminals: SW> Tillman= 10-30 in Tipton area. (D.C. Arnold).

MISCELLANEOUS FIELD CROPS

INSECTS

SUNFLOWER MOTH (Homoeosoma electellum) - OKLAHOMA - District> County= larvae per sunflower head: C> Kingfisher= 1-2 in 100% of 1 field. (D.C. Arnold).

SUNFLOWER BUD MOTH (Suleima helianthana) - NORTH DAKOTA - District> County= larvae per sunflower plant week ending July 20: NE> Pembina= 1 in 1 field. (Crowston et al.).

A WEEVIL (Cylindrocopturus adspersus) - NORTH DAKOTA - First of season. District> County= adults in sunflowers: C> Stutsman= noted in central part of State, July 11, this county and Foster= present in many fields, July 13, with 12 ha sprayed in latter county; populations averaged 2 per plant. (C.G. Scholl).

A CECIDOMYIID MIDGE (Contarinia schulzi) - MINNESOTA - District> County= status on sunflowers week ending July 20: NW> Marshall= on about 400 ha in southwestern area, west of Warren, in same area as in 1978; eggs 500-600 per head, indicates high potential for damage. (D. Sreenivasam).

POTATOES, TOMATOES, PEPPERS

INSECTS

VARIEGATED CUTWORM (Peridroma saucia) - ILLINOIS - District> County= status on potatoes: E> Kankakee= nearly full-grown larvae up to 25 per plant in 1 commercial field. Control unsatisfactory and serious damage may occur. (K.D. Black). WISCONSIN - Area> status in potatoes week ending July 20: Central Sands> larvae relatively heavy, defoliation heavy in parts of certain infested fields. (O.L. Lovett).

BEANS AND PEAS

DISEASES

RHIZOCTONIA ROOT ROT (Rhizoctonia solani) - NEBRASKA - District> County= prevalence on dry beans [host stage] week ending June 30: NW> Box Butte= 30% and Scotts Bluff= 70% [first trifoliolate leaf to 4 nodes]. (S. Poe).

PEA WEEVIL (Bruchus pisorum) - IDAHO - District> County= counts on peas: Northern area and SW> Washington in eastern area= very light during 1979. Believed due to drought in 1977, general treatments in 1978, and very cold and open winter of 1978-1979. Adults averaged 1-2 per 500 sweeps on peas [blooming] overall. (L.E. O'Keeffe).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - WISCONSIN - District> County= status on cabbage week ending July 20: SC> Columbia= three-fourths-grown larvae heavy on poorly treated field margins, increased egg laying expected in 2-3 weeks when larvae emerge as adults. (O.L. Lovett).

GENERAL VEGETABLES

INSECTS

WESTERN FLOWER THRIPS (Frankliniella occidentalis) - CALIFORNIA - District> County= status on artichoke: Central Coast> Monterey= infestation widespread, nymphs and adults averaged 10 per leaf in 1-ha field at Castroville in Salinas Valley district. (C.S. Papp).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= adults in traps week ending July 22: EC> Grant and Adams= 165 (6.5 per trap and ranged 4-26 per trap) trapped in backyard trees and 68 (0.9 per trap) in commercial orchards. (R. Hunter).

PEAR PSYLLA (Psylla pyricola) - NEW YORK - Second generation adults heavy in untreated pear blocks in Hudson Valley. (Weires).

APPLE RUST MITE (Aculus schlechtendali) - OREGON - County= status in apple root stool beds: Yamhill= became more serious during last 2 periods of warm weather. Controls needed. (B. Long, G. Wogan).

WALNUT CATERPILLAR (Datana integerrima) - OKLAHOMA - District> County= status week ending July 20: EC> Muskogee and NE> Wagoner= defoliation heavy, up to 90%, on black walnut trees in some areas, and NC> Noble= heavy on pecan trees in Morrison area. (D.C. Arnold).

PECAN NUT CASEBEARER (Acrobasis nuxvorella) - OKLAHOMA - District> County= status on pecans week ending July 20: NC> Noble= mature first generation larvae in damaged nutlets, and C> Payne= pupa found. (D.C. Arnold).

AN APHID (Panaphis juglandis) - CALIFORNIA - District> County= status on English walnut: Siskiyou-Shasta> Siskiyou= first report of infestation since 1975. (C.S. Papp).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - KANSAS - New State record. District> County= collection data from Pinus sylvestris (scotch pine): SE> Cherokee= collected from 1 dead tree about 9 m tall in yard near Weir, June 22, 1979, by G. Clark and F.J. Crowe. Determined by W. Friedman. Tree burned. (A. Foudin). ARKANSAS - New State record. District> County= collection data from Pinus taeda (loblolly pine): NC> Baxter= collected from 1 tree in yard at south Mountain Home, June 13, 1979, by J.E. Bevill. Determined by A. Foudin; confirmed by W. Friedman. (C.M. Shotts). MISSOURI - New county record. District> County= collection data from Pinus nigra (Austrian pine): E> Franklin= collected from middle of row of pines in yard at Washington, July 2, 1979, by F. Rycyk, Jr. Determined by W. Friedman. (F. Rycyk, Jr.).

INSECTS

SPRUCE BUDWORM (Choristoneura fumiferana) - MICHIGAN - Area> status: Western Upper Peninsula> damage heavy, much of spruce-fir type affected and substantial tree mortality expected. Salvage cuts planned. Adults emerged 2-3 weeks ago and finished laying eggs, hatch about 50% complete. Damage ranged from none to heavy. (M. McKeague, G. Simmons).

PANDORA MOTH (Coloradia pandora) - CALIFORNIA - Area> status on Jeffrey pine: Inyo National Forest, Mammoth Ranger District, and Mono Lake District> infested 4,046.9 ha. Center of infestation 72 km north of Bishop in Lookout Mountain area. Many trees completely defoliated. Defoliation expected again in spring 1981 due to 2-year life cycle and 1980 will be year of emergence. Some specimens collected with nuclear polyhedrosis virus may control population. (W. Chandler).

ELM SPANWORM (Ennomos subsignarius) - MICHIGAN - District> County= status: Upper Peninsula> Luce and NE> Otsego= populations heavy, present in northern hardwood stands although preferred hosts recorded as hickory, oak, and ash. Outbreaks in State relatively unusual. (M. McKeague, G. Simmons).

A CECIDOMYIID MIDGE (Dasineura gleditchiae) - CALIFORNIA - New county record. District> County= collection data on Gleditsia triacanthos (honeylocust): San Joaquin Valley> San Joaquin= near Lodi, May 31, 1971, by L. Todd. Determined by K. Brown; confirmed by K. Corwin. Subsequent collections from Manteca July 12, 1979. (C.S. Papp).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - NEBRASKA - District> County= average per head on untreated cattle week ending July 19: SW> Lincoln and C> Dawson= 350+. (Boxler). WISCONSIN - Averaged about 15 per side on all varieties of cattle week ending July 20 over most of State. District> County= counts on dairy and beef cattle: SC> Jefferson= 0 per animal and WC> Pepin= 40 per side. (O.L. Lovett).

FACE FLY (Musca autumnalis) - NEBRASKA - District> County= average per head on untreated cattle week ending July 19: SW> Lincoln and C> Dawson= 10+. (Boxler).

MOSQUITOES - MINNESOTA - Area> biting species in order of abundance; adult light trap collections; and larval collections week of July 7-13: Metropolitan Mosquito Control district> Aedes vexans, Aedes stimulans, and Coquillettidia perturbans; A. vexans 73%, C. perturbans 23%, and Aedes trivittatus 1.4%, A. vexans adults more than tripled over previous period and C. perturbans doubled; and Aedes spp. 13%, and A. vexans and Aedes cinereus 7%. C. perturbans expected to peak week ending July 20 and should be decreasing soon. A. vexans still main problem in metropolitan area. (D. Sreenivasam).

WISCONSIN - Biting species of mosquitoes increased week ending July 20 in several localities due to heavy rains several weeks ago and warm conditions since. Populations heavy in northeastern area. District> County= status: NW> Washburn, WC> La Crosse, Trempealeau, NW> Chippewa, and C> Portage= population heavy. (O.L. Lovett). OHIO - District> County= A. vexans in light trap week ending July 20: NC> Richland= very heavy in 1 trap, 430 (90% A. vexans) over night. (P. Parsons).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A WEEVIL (Rhinocyllus conicus) - INDIANA - District> County= status of this pest of musk thistle: SE> Switzerland= adult collected where none released in 1979, further indication insect established. (J. Favinger).

FEDERAL AND STATE PROGRAMS

DISEASES

OAT STEM RUST (Puccinia graminis f.sp. avenae) - WISCONSIN - District> County= prevalence on oats: SW> Grant= 3% in 2 fields July 16 and Lafayette= trace in 2 fields. (O.L. Lovett).

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) - WISCONSIN - Prevalence/severity on winter wheat surveyed for 1979: SE> Racine= trace/trace, Kenosha= 0%/0%, Walworth= 0%/0%, SC> Columbia= 4%/2%, Dane= 0%/0%, and Dodge= 0%/0%; averaged 1%/1% in 3 infected fields of 69 surveyed. Heavy prevalence/severity,

of wheat stem rust 40%/19% and 10%/4%, in lodged areas of 2 fields of variety not commonly grown in this area in Columbia County. (O.L Lovett).

For other cereal rusts, see page 535.

INSECTS

GRASSHOPPERS - WASHINGTON - District> County= Melanoplus sanguinipes, Melanoplus femurrubrum, and Camnula pellucida on rangeland grass: C> Okanogan, NE> Ferry, and Stevens= 49,870.4 ha sprayed for control of economic infestations, July 19. (D.W. Keim). NEW MEXICO - Status on cotton: SE> Eddy= grasshoppers completely defoliated about 80 ha near Pecos River in northern area, and in northern Eddy and southern Chaves= 809.4 ha threatened. (L. Gholson). COLORADO - Area> Melanoplus spp. status: SE> moved into scattered corn fields and severely damaged border rows. (W.M. Hantsbarger).

TEXAS - Grasshoppers still damaged variety of crops and rangelands with heaviest damage from Rolling Plains and St. Lawrence Valley areas. District> County= counts on cotton, July 16-18: Southern Low Plains> Mitchell and Scurry= 10-15 per 0.8 sq m in several fields, Rolling Plains area> damage occurred in several counties, Southern High Plains> Crosby and Northern High Plains> Floyd= damage excessive, Northern Low Plains> Kent at Jayton= moderate to heavy. (W.C. Jany). On rangeland July 17: Northern Low Plains> Childress, Hall, Hardeman, and Kent= counts heavy. (E.P. Boring, III).

OKLAHOMA - District> County= cooperative grasshopper control programs completed on rangeland last one-half of June: SC> Carter and Murray= 33,791 ha, WC> Roger Mills= 19,020 ha, and SW> Greer and WC> Beckham= 6,070.3 ha. Status week ending July 20: Panhandle> Cimarron= moderate in rangeland and moderate to heavy in gardens; NC> Major= 30 per 0.8 sq m in Bermuda and lovegrass pastures and 5-30 per 0.8 sq m in native pastures: NE> Wagoner= 1-2 per 0.8 sq m in pastures in most areas; EC> Sequoyah= heavy in fence rows and Pittsburg= heavy in Peaceful Creek area with heavy damage to monkeygrass and ornamental evergreens at 1 residence; SW> Jackson, Tillman, Harmon, Greer, and Kiowa= mostly Melanoplus differentialis heavy in fence rows and field borders in most areas; and SC> Love= 2-10 per 0.8 sq m in 9 peanut fields and Atoka= 30-50 per 0.8 sq m in pastures and gardens. (D.C. Arnold).

NEBRASKA - District> Melanoplus spp. status week ending July 19: S, C, and SE> activity light to heavy, 1-40 per 0.8 sq m in lawns, gardens, pastures, roadside ditches, and cropland margins; counts vary widely and economic infestations scattered. (Peters). District> County= grasshopper stage ranged (averaged) per 0.8 sq m: NE> Cedar= 2nd instar to adult 6-18 (8) in 4 field margins and 1 alfalfa field. (Vawser).

NORTH DAKOTA - District> County= number of hectares treated: SC> Morton= 8,391.6 ha of rangeland cooperatively treated, July 5-9, SW> Golden Valley and Billings= about 6,500 privately treated, July 13-16 (Brandvik, Scholl), and C> Foster= 404.7 ha of sunflowers sprayed in central area, June 25 (Kaatz).

GYPSY MOTH (Lymantria dispar) - CALIFORNIA - First trap records of adults in following counties. District> County= trap data: Southern California> Santa Barbara= adult trapped in cemetery at Santa Barbara, July 10, 1979, by C. Bergmann, determined by R. Somerby; adult trapped in yard about 5 km away July 23 by C. Bergmann, determined by T. Eichlin; Los Angeles= adult trapped in yard about 200 km away at El Monte, July 18, by R. Little, determined by R. Somerby. (C.S. Papp).

JAPANESE BEETLE (Popillia japonica) - MICHIGAN - Adults active and feeding. District> County= status: SW> Cass= heavy on grape and many ornamental plants near Edwardsburg. (G. Dunn), OHIO - Japanese beetle adults and feeding damage in most soybean fields surveyed week ending July 20, weeds in fields seemed preferred host. Adults surveyed based on 100 sweeps of soybeans, July 16-17 (G.P. Walker):

District> County	Adults per sweep	District> County	Adults per sweep
C> Franklin	0.01	SC> Pike	0.34
C> Pickaway	less than 0.1	SC> Scioto	0.02
C> Pickaway	0.01	SC> Scioto	0.12
C> Ross	0.10	SC> Lawrence	0.05

VIRGINIA - District> County= adult Japanese beetle status: SW> Montgomery= emerged in large numbers. Heavy emergence first noted on July 16. Damage extensive to plum, cherry, crabapple, grapes, and many other ornamental trees, shrubs, and flowers throughout county. (J.L. Garner).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status: C> Maricopa= adults 0-26 per trap per day and 1 larva in 100 bolls, and SW> Yuma= 1-21 per trap per day, 2-4% of 50 bolls infested in Yuma Valley, and 4-13% of 3,000 bolls infested at Yuma Mesa. (K. Toth et al.). TEXAS - Adults in 3 traps on cotton, July 12-18: Southern High Plains> Martin= 18. (D.J. Foster et al.).

RANGE CATERPILLAR (Hemileuca oliviae) - NEW MEXICO - District> County= status on rangeland, July 9-13: SE> Lincoln= populations about 50% 5th instar (J. Ward), and NE> Union and Colfax= mostly 5th instars (J. Hansen, T. Walters).

DETECTION

NEW STATE RECORDS

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - Baxter; KANSAS, Cherokee. (p. 548).

NEW COUNTY RECORDS

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - MISSOURI - Franklin. (p. 548).

INSECTS

A CECIDOMYIID MIDGE (Dasineura gleditchiae) - CALIFORNIA - San Joaquin. (p. 549).

CORRECTIONS

CPPR 4(26):490 - BEANS AND PEAS, DISEASES - Page 490 corrected on last page of this issue (Volume 4, Number 28).

CPPR 4(27):507 - HOLCUS SPOT (Pseudomonas syringae) - INDIANA - Delete note.

LIGHT TRAP COLLECTIONS

BL = blacklight
I = incandescent
MV = mercury vapor
O = other

	Temperature °C.	Precipitation (mm)	Type of trap	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Fukoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Lesperesia pomonella (codling moth)	Loxostege comstictalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mandura quinquemaculata (tomato hornworm)	Mandura sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 7/16-22			BL	8					3							1		9	10	18		2	5	
CALIFORNIA																								
Manteca 7/22	20-36		BL					5		2									1	149				
FLORIDA																								
Gainesville 7/19-25			BL		1			11		11									1	3				
MINNESOTA																								
Fergus Falls 7/18-24	13-31	16.0	BL														19	2	6					
Le Sueur 7/18-24	10-32	29.2	BL	15													3	1	21				1	
MISSISSIPPI																								
Stoneville 7/20-26	21-33	85.3	2BL	88	4			17	2	152								4	293	4	81	191	91	
OHIO (Counties)																								
Putnam 7/17-23			2BL	12													1	8	103					
Wayne 7/19-25			3BL	68														15	506			1		
TEXAS																								
College Station 7/12-24			BL	0	0				0	17					0	3			8		6	2	0	
WEST VIRGINIA (Counties)																								
Monroe 7/26			BL																14					
Putnam 7/23-24			BL	5															5					
WISCONSIN																								
Lancaster 7/17-25			BL	0												1	4	26	8					
Mazomanie 7/17-25			BL														5		1					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Anastrepha ludens (Loew) Mexican fruit fly Det. B.K. Dozier	larval	in mangoes from baggage	Mexico	San Diego	CA
Conotrachelus aquacatae Barber a weevil Det. R. Eads	larval	in avocados from baggage	Mexico	El Paso	CA
Hylobius sp. a weevil Det. R.F. Bollinger	larval	in dunnage	West Germany	Charleston	--
Hypera sp. a weevil Det. D.R. Whitehead	adult	with leaves of orchid plants from cargo	Philippines	San Francisco	IL
Mamestra brassicae (Linnaeus) cabbage moth Det. D.M. Weisman	larval	on Limonium cut flowers from cargo	Netherlands	Boston	MA
Phoracantha semipunctata (Fabricius) a cerambycid beetle Det. D.M. Anderson	larval	in wood pallets of leather	Argentina	New York	NY
Monacha syriaca (Ehrenberg) a helicid snail Det. E.J. Ford, Jr.	adult	on cargo	Turkey	Dover AFB	LA
Pallifera costaricensis (Morch) a slug Det. R. Munkittrick	adult	on leaves of Chamaedorea from cargo	Guatemala	Houston	TX

BEANS AND PEAS

DISEASES

PEA ROOT ROTS - WISCONSIN - Survey of peas for 1979 for these rots caused by Aphanomyces euteiches and Fusarium solani f. pisi. (O.L. Lovett):

District> County	Prevalence (%)	Severity (%)	Number of fields
SC> Dodge	36	21	7
SC> Columbia	13	2	5
SC> Dane	56	28	5
SC> Rock	35	20	4
EC> Fond du Lac	2	1	5
EC> Sheboygan	1	1	5
EC> Winnebago	25	25	4
EC> Manitowoc	7	1	3
EC> Door	2	2	3
EC> Brown	5	10	3
EC> Outagamie	0	0	2
EC> Kewaunee	6	16	2
EC> Calumet	0	0	2
C> Green Lake	78	36	4
C> Portage	88	38	4
C> Waushara	35	15	3
C> Adams	58	41	2
SE> Ozaukee	21	9	2
SE> Walworth	0	0	4
SE> Washington	0	0	3
SW> Sauk	36	20	2
WC> Trempealeau	18	3	2
Average	23	13	

DRY BEAN ROOT ROTS (Pythium sp. and Fusarium sp.) - WISCONSIN - District> County= prevalence on 100 snap bean plants/estimated damage to root system and plant stunting in number of fields (f): C> Waushara= 22%/8% in 25f, Portage= 13%/19% in 15f, Adams= 15%/21% in 10f and averaged 17%/16% in 50f. (O.L. Lovett).

PEA DOWNY MILDEW (Peronospora viciae) - WISCONSIN - District> County= prevalence/severity on peas for 1979: SC> Dodge= 5%/1%, EC> Fond du Lac= 1%/1%, Sheboygan= trace/-, C> Green Lake= 1%/1%, SE> Washington= trace/-, and SW> Sauk= 3%/1%; averaged 1%/1%. (O.L. Lovett).

PEA ANTHRACNOSE (Colletotrichum pisi) - WISCONSIN - District> County= prevalence/severity on beans for 1979: EC> Fond du Lac= 1%/1% and C> Green Lake= 14%/1%; averaged 1%/1%. (O.L. Lovett).

BEAN BROWN SPOT BLIGHT (Pseudomonas syringae) - WISCONSIN - District> County= prevalence/severity of brown spot on snap beans, week of July 6: C> Waushara and Adams= light, averaged 4%/1% in 14 of 35 fields, some sprays applied and 1 such field had 75%/7%. (O.L. Lovett).

PEA BACTERIAL BLIGHT (Pseudomonas pisi) - WISCONSIN - Prevalence/severity on peas for 1979: EC> Fond du Lac= 1%/1%, SC> Columbia= 3%/1%, C> Portage= 11%/1% Waushara= 8%/1%, Adams= 15%/1%, and SW> Sauk= trace/-; averaged 1%/1%. (O.L. Lovett).

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

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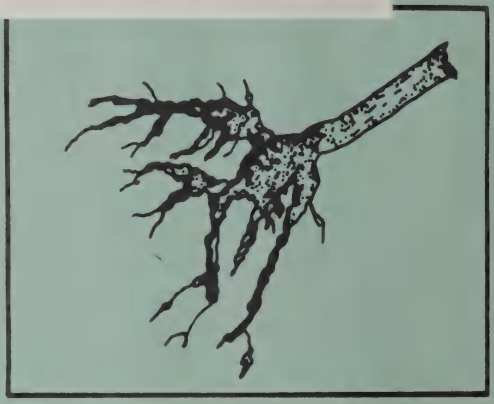
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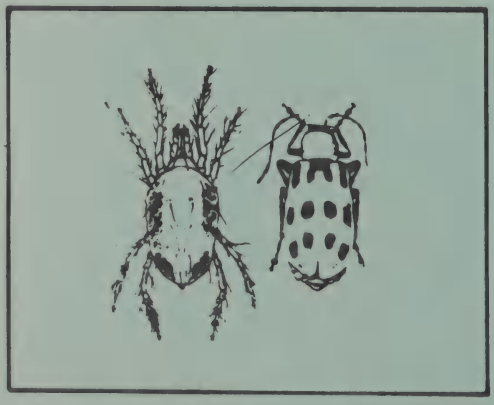
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

August 10, 1979

Vol. 4

No. 29

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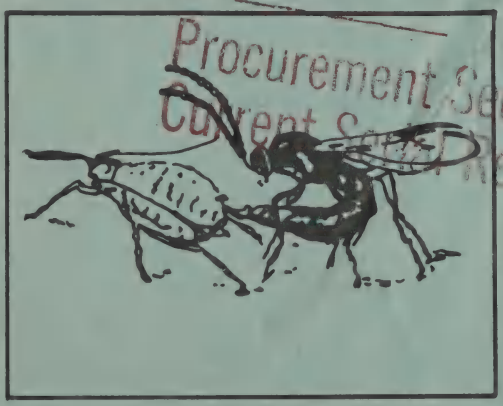
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49–52, 1975.

Correspondence should be directed to:

CPPR
New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

Second brood EUROPEAN CORN BORER adult flights heavy in south-central Kansas and underway in north-central area. Damage to corn in many parts of Nebraska by the first generation will be more typical of that caused by the second generation. (p. 559).

FALL ARMYWORM damage extensive on grain sorghum, pasture grasses, and late-planted corn in many Mississippi areas. (p. 560).

Detection

For new county records see page 571.

Some First Occurrences of the Season

COMMON MAIZE RUST on corn in Iowa. NORTHERN LEAF BLIGHT and CORN BROWN SPOT on corn, and ALFALFA RUST and ALFALFA BACTERIAL LEAF SPOT in Kansas.

Reports in this issue are for the week ending August 3 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON MAIZE RUST (Puccinia sorghi) - KANSAS - One of most common corn diseases. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Fields infected	Fields surveyed
EC> Wabaunsee	10	trace	1	1
NC> Clay	60-100	10-25	2	2
NC> Washington	trace	trace	1	1
NC> Republic			0	2
NC> Cloud			0	1

IOWA - First common maize rust of season. District> County= status on corn [tassel] week ending July 17: SC> Lucas= lower leaves infected. Plant development late due to cool, continuous rains during planting. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on corn [silks emerged] leaves in 1 commercial field each, week of July 23: WSW> Bond= trace/trace, Montgomery= trace/trace, Macoupin= trace/trace, Madison= trace/trace, SW> Washington= trace/trace, SE> White= 100%/1%, and Wayne= trace/trace. (E.G. Jordan).

SORGHUM LEAF RUST (Puccinia purpurea) - KANSAS - District> County= prevalence on sorghum week ending July 27: NE> Pottawatomie= trace in 1 field. (T. Sim, IV).

COMMON SMUT (Ustilago maydis) - ILLINOIS - District> County= prevalence on corn [silks emerged] in 1 commercial field each, week of July 23: WSW> Bond= 3%, Montgomery= 4%, Macoupin= 6%, Madison= trace, SW> Washington= 3%, SE> White= 5%, and Wayne= 8%. (E.G. Jordan). WEST VIRGINIA - District> County= prevalence on corn: SW> Mason= 10% in 36-ha field. (R.L. Williams).

HELMINTHOSPORIUM LEAF SPOT (Helminthosporium carbonum) - ILLINOIS - District> County= prevalence/severity on corn [silks emerged] leaves in 1 commercial field each, week of July 23: WSW> Bond= 50%/1%, Montgomery= 10%/trace, Macoupin= trace/trace, Madison= 20%/trace, SW> Washington= 50%/1%, SE> White= 15%/trace, and Wayne= 20%/trace. (E.G. Jordan).

NORTHERN LEAF BLIGHT (Helminthosporium turcicum) - KANSAS - First of season. District> County= status on corn: EC> Anderson= collected July 18 and NC> Clay= trace in 1 field. (T. Sim, IV).

SORGHUM DOWNY MILDEW (Sclerospora sorghi) - KANSAS - Observed in same areas as in 1978. District> County= prevalence on sorghum week ending July 27: SC> Pawnee= trace in susceptible variety (affected nearby Johnsongrass), no systemically infected plants seen and NE> Pottawatomie= systemically infected plants trace with local symptoms on 40% in 1 field, waste field adjacent to south side of this field contained heavily infected volunteer sorghum and Sorghum bicolor (shattercane). (T. Sim, IV).

CRAZY TOP (Sclerophthora macrospora) - MISSOURI - District> County= prevalence on corn [blister]: SE> Mississippi= less than 1% on edge and isolated areas of 3 fields. (A. Foudin).

CORN BROWN SPOT (Physoderma maydis) - KANSAS - First of season. District> County= status on corn: NC> Republic= trace in 1 field. (T. Sim, IV).

CEREAL ANTHRACNOSE (Colletotrichum graminicola) - ILLINOIS - District> County= prevalence/severity on corn [silks emerged] leaves in 1 commercial field each, week of July 23: SE> White= 100%/2% and Wayne= 100%/2%. (E.G. Jordan).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - Survey of sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Fields infected	Fields surveyed
NC> Clay	100	moderate	1	2
NC> Washington	30	light	2	2
NC> Republic	-	-	0	1
NC> Cloud	-	-	0	2

HOLCUS SPOT (Pseudomonas syringae) - KANSAS - District> County= prevalence on sorghum week ending July 27: NE> Pottawatomie= trace in 1 field and Riley, Marshall, and Nemaha= not seen; currently: SE> Montgomery= 100% in 1 field. (T. Sim, IV).

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Surveys on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage	Fields infected	Fields surveyed
Week ending July 27:					
NE> Riley	trace	-	early boot	1	2
NE> Marshall	trace	-	early boot	2	3
NE> Nemaha	-	-	heading	0	2
NE> Pottawatomie	-	-	46 cm to early boot	0	3
Currently:					
NC> Clay	10	light		1	2
NC> Washington	0	-		2	2
NC> Republic	0	-		0	1
NC> Cloud	trace	-		0	2

STEWART'S WILT (Erwinia stewartii) - MISSOURI - Area> prevalence/severity on corn [full silk to blister] leaves in scattered fields: Statewide> 5-100%/trace. (A. Foudin). ILLINOIS - District> County= prevalence/severity on corn [silks emerged] leaves in 1 commercial field each, week of July 23: WSW> Bond= 20%/1%, Montgomery= trace/trace, and SW> Washington= 15%/1%. (E.G. Jordan).

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - District> County= prevalence/severity on sorghum week ending July 27: NE> Marshall= trace/no data in 2 of 3 fields, Riley, Marshall, and Nemaha= not seen; currently most widespread sorghum disease in parts of north-central area: NC> Clay= 5%/light in 1 of 2 fields, Washington= 10-20%/light in 2 of 2, Republic= trace/no data in 1 of 1, and Cloud= trace/no data in 1 of 2. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence of red leaf in 1 sorghum field each: NC> Cloud= 1% and SW> Washington= trace. Currently 1 of most common corn diseases. Survey on sorghum and corn (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage	Fields infected	Fields surveyed
On sorghum week ending July 27:					
NE> Riley	trace	red leaf present	early boot	1	2
NE> Marshall	trace		early boot	1	3
NE> Nemaha			heading	0	2
NE> Pottawatomie	trace		46 cm to early boot	1	3
On corn currently:					
EC> Wabaunsee	5	light		1	1
NC> Clay	-	-		0	2
NC> Washington	1	light		1	1
NC> Republic				0	2
NC> Cloud	trace			1	1

ILLINOIS - District> County= prevalence of maize dwarf mosaic on corn [silks emerged] in 1 commercial field each, week of July 23: WSW> Macoupin= 1% and SW> Washington= trace. (E.G. Jordan).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - KANSAS - District> County= status on corn week ending July 27: SC> Pratt= second brood adult flights heavy in light trap; NC> Republic= adult flights underway according to light trap catches; WC> Scott, Wichita, Logan, Gove, NW> Thomas, and Sheridan= no adults in some fields and few pupae noted, average percent plants infested by larvae or pupae up to 60% and 24%, respectively, in 1 field each in last 2 counties, first generation mostly 5th instars in sample from 2 fields in Thomas County (K.O. Bell, Jr.); SE> Neosho, Allen, and EC> Anderson= few large larvae, mostly pupae and first generation eggs, found (G.E. Lippert); SE> Labette= second generation 1st and 2nd instar larvae infested 5% of plants in 1 field, July 20 (H.L. Brooks); NE> Leavenworth and EC> Douglas= pupation averaged about 50-60% complete in some fields, no eggs (L.C. Bonczkowski); SC> Kiowa= eggs on 15% of plants in 1 field (G.A. Salsbury); and SW> Grant= no eggs found (H.L. Brooks, D.E. Mock) and Ford= second generation egg masses averaged 1, 3, 6, 14, and 22 per 100 plants in 5 fields (H.L. Brooks, J.R. VanKirk).

NEBRASKA - First generation European corn borer adult flight interrupted in most areas by hot, dry weather and resumed when cooler, moister conditions returned. Resulted in full-grown larvae and early instar larvae in many corn fields in northeast, east, central, and southwest districts week ending July 27. First generation early instar larvae will cause damage more typical of second generation larvae in many fields. (Witkowski et al.). District> County= status on corn: NE> larvae, mostly 4th instar, still outside of stalks (Witkowski, Jarvi), SW> Keith and Perkins= 34% of larvae bored into stalks in 91 fields by July 19, and Lincoln= 30% in 47 fields by July 18. (Kozub).

MISSOURI - European corn borer infestations light on corn in southwestern area. District> County= status on corn week ending July 28: W> Vernon and Bates= plants with feeding damage averaged 2.3% and 3.5%, respectively, egg masses 50 per 100 plants in late corn field in latter county (M.E. Roof), and E> St. Charles= egg masses 1-14 per 100 plants in late corn field; currently: W> and N areas> second generation egg laying underway, and C and WC areas> egg masses 9-47 per 100 plants (R.E. Munson).

ILLINOIS - Occasional European corn borer pupa still found in corn, even in southern areas. District> County= egg masses per 100 corn plants: W> Adams and McDonough= up to 25, NW> Ogle= up to 15, and Carroll= 120 in field near Savannah. (K. Black). DELAWARE - Area> status: Statewide> averaged 20 per night in blacklight traps. (P.P. Burbutis).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - NEW MEXICO - District> County= larval average per cornstalk: NE> Union= 1.5 on 20-45% of stalks from Sedan to eastern State line. (G. Nielsen).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Larvae heavy and increased in many areas on grain sorghum, pasture grasses, and late-planted corn. Infestations of 100% not uncommon on corn and grain sorghum in southern area. Damage extensive. (R. Anderson). ILLINOIS - Area> status in late-planted corn: Mostly S> whorl leaf and tassel damage slight to severe in occasional fields, some larvae also fed on silks and ear tips, in many fields. (K. Black). WEST VIRGINIA - District> County= larval status on corn: SW> Mason= heavy in late-planted corn, larvae 2.5-3.1 cm long, infested 60% of 20-ha field [71 cm tall]. (C. Stuart).

ARMYWORM (Pseudaletia unipuncta) - ILLINOIS - Area> status on corn: Southern one-half> larvae, 1.5 cm long to full-grown, fed on silks. (K. Black). NEBRASKA - District> County= larval status on corn week ending July 27: C> Buffalo= fed up to tassel on plants in border rows of 1 field (Peters), SW> Keith, Perkins, and Lincoln= armyworm still confined to grassy margins of most corn fields (Campbell, Kozub), NE> Cedar= fed mostly on grassy weeds and volunteer corn (Witkowski, Jarvi), and E> Butler= defoliated grass in fence lines and in brome waterways in northeastern area (Lange).

CORN EARWORM (Heliothis zea) - TEXAS - Area> status on corn July 20: South Plains> infested 60-90% of stalks. (J.F. Leser). MISSOURI - District> County= full-grown larvae or pupae on corn: W> Bates= damaged 40-84% of ears in 5 fields. (R.E. Munson).

CORN ROOTWORMS (Diabrotica spp.) - IDAHO - District> County= WESTERN CORN ROOTWORM (D. virgifera) status on corn: E> Franklin= adults first emerged July 27 and now averaging 7-10 per plant near Preston. (L.E. Sandvol).

TEXAS - District> County= D. virgifera status on corn: Northern High Plains> Carson= adults 1.5 per plant in western area and Hale= emerging, adults 18 per trap per night at Cotton Center. (C.D. Patrick et al.). KANSAS - Diabrotica spp. adult peak emergence probably over in most of State. District> County= status on corn week ending July 27: SW> Grant= up to 2 per plant, and Ford= 3 per plant (H.L. Brooks et al.); SE> Neosho= trace in 1 field, Allen and EC> Anderson= none found (G.E. Lippert); and SW> Finney, Kearny, Grant, Haskell, WC> Gove, Scott, Wichita, Logan, and NW> Thomas= 0-2.5 D. virgifera per plant [water to silk] in 26 fields, July 22-26 (Shuman et al.). NEBRASKA - District> Diabrotica spp. damage on corn week ending July 27: NE> light to heavy, heaviest in Cedar, Dixon, and Dakota Counties. (Witkowski, Jarvi).

MISSOURI - Diabrotica virgifera adults very light on corn in west-central and southwestern areas, light in most corn areas. District> County= average per plant week ending July 28: SW> Barton= 0.2, and W> Bates= 0.07; current percent of fields with 1 or more per plant and range per 25 plants: 229 fields in 15 counties representing all infested areas> 25.94% and 1-168, heaviest in NW district> Atchison County with 64.62% and 1-168 (averaged 50.75). (M.E. Roof).

GREENBUG (Schizaphis graminum) - TEXAS - District> County= counts on sorghum, July 20-27: South Plains area> increased, under 50 per leaf, and 5-10% mummies, Panhandle area> colonies small, Southern High Plains> Crosby, and Northern High Plains> Floyd= increased, Hale= economic in few fields. (J.F. Leser et al.).

KANSAS - Still scarce on sorghum statewide. District> County= counts per sorghum plant week ending July 27: SW> Ford= light, averaged 10-50, in some fields with Lysiphlebus testaceipes (an aphidiid wasp) trace in some fields, and Grant= averaged 50-320, winged adults few, and parasitism averaged up to 1.6 per plant (H.L. Brooks et al.); WC> Scott and Wichita= 35-200 in 3 fields [71-86 cm tall], winged adults and parasitism none, rapid increase possible, particularly in these 2 counties. Averages in sorghum [56 cm to headed] in 1 field each, unless stated otherwise: WC> Gove= 3, Logan= 50, NW> Graham= 0.4, NC> Rooks= 18, Osborne= 9, Clay= 0, and Washington= 0 to trace in 2 fields; no parasitism but lady beetles often heavy. (K.O. Bell, Jr.).

CORN LEAF APHID (Rhopalosiphum maidis) - MISSOURI - Area> status on corn: W> light on 3-28% of plants in 4 of 10 fields [not yet headed]. Parasites and predators kept populations light. (R.E. Munson).

CHINCH BUG (Blissus leucopterus leucopterus) - KANSAS - First record of heavy flights of first generation adults. District> County= status on sorghum week ending July 27: NE> Riley= first generation adult flight heavy in plots at 1 location at Manhattan, counts in plots increased sharply and heavy numbers destroyed few seedling plants in stand adjacent to plots (T.W. Mize); Marshall, NC> Washington, and Republic= adults mostly and large nymphs trace where adults earlier destroyed several rows of sorghum adjacent to wheat, adults sometime heavy on undersides of lowest 2 leaves (L.C. Bonczkowski); and Washington= some heavy stand losses adjacent to wheat along State Highway 148 west of State Highway 15W, into Cloud County (K.O. Bell, Jr.).

SMALL GRAINS

DISEASES

Winter wheat harvest in northern Kansas and Colorado almost completed July 12-25. Maturity and harvest near normal in Ohio Valley area, but remains behind normal in Great Plains. Oat and barley harvesting started in southern South Dakota and northern Iowa. (A.P. Roelfs, D.L. Long).

Final WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) severity readings of 60% at Rosemount, MINNESOTA, experiment station winter wheat cultivar plots July 12-25. Severities of 70% on winter wheat cultivar Eklund at Casselton, NORTH DAKOTA. (Miller, Statler). Light throughout upper midwest on commercial spring wheat cultivars. Severities up to 5% in spring wheat plots on cultivars Era, Waldron, and Olaf. Severity may reach 60% on less commonly grown cultivars. (A.P. Roelfs, D.L. Long).

OAT CROWN RUST (Puccinia coronata var. avenae) severities on oats [soft dough] trace to 80% in southern MINNESOTA and trace to 40% in southeastern SOUTH DAKOTA, July 12-25. Losses will occur in some severely rusted fields in these States. (A.P. Roelfs, D.L. Long).

BARLEY LEAF RUST (Puccinia recondita f.sp. hordei) severities trace to 40% on barley in SOUTH DAKOTA and southern MINNESOTA nurseries July 12-25. (A.P. Roelfs, D.L. Long).

RYE LEAF RUST (Puccinia recondita f.sp. secalis) severities on rye heavier in 1979 than in recent years, 40% common in commercial fields July 12-25. (A.P. Roelfs, D.L. Long).

For stem rusts see p. 569-570.

INSECTS

ARMYWORM (Pseudaletia unipuncta) - NORTH DAKOTA - District> County= larvae, 1-5 cm long, per 0.3 row m on wheat and barley: EC> Traill= up to 3 (averaged less than 1) in 11 fields. (C.G. Scholl).

ENGLISH GRAIN APHID (Macrosiphum avenae) - NORTH DAKOTA - District> County= winged and wingless forms of this species and an APHID (Rhopalosiphum padi) on wheat and barley [soft dough] per 0.3 row m: EC> Traill= trace to 42 in 10 fields. (C.G. Scholl).

TURF, PASTURES, RANGELAND

INSECTS

ARMYWORM (Pseudaletia unipuncta) - COLORADO - District> County= larvae on lawns: N> Larimer= 20-30 per 0.8 sq m at Ft. Collins. (W.M. Hantsbarger). SOUTH CAROLINA - District> County= larval status on Coastal bermudagrass: E> Florence= mostly late instar or pupae in damaged field at Pamplico. (D.G. Manley).

BEET ARMYWORM (Spodoptera exigua) - SOUTH CAROLINA - District> County= status on Coastal bermudagrass: C> Clarendon= damage about 50% in 8.1-ha field at Manning. (H.C. Scoville).

FALL ARMYWORM (Spodoptera frugiperda) - SOUTH CAROLINA - District> County= status on Coastal bermudagrass: S> Barnwell= larvae up to 4 per 0.09 sq m in 10-ha field at Blackville; damage light and controls recommended. (J.W. Chapin).

FORAGE LEGUMES

DISEASES

LEPTO LEAF SPOT (Leptosphaerulina briosiana) - KANSAS - Common on alfalfa in parts of northern and eastern areas. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)	Fields infected	Fields surveyed
EC> Wabaunsee	trace	-	20	1	1
NC> Clay	trace	-	36-41	1	3
NC> Washington	100	light	46	1	1

District> County	Prevalence (%)	Severity (%)	Host height (cm)	Fields infected	Fields surveyed
NC> Republic	10	light	46	1	1
NC> Cloud	trace	-	38	1	1

WEST VIRGINIA - District> County= lepto leaf spot prevalence with defoliation on forage legumes: E> Jefferson= 100% in two 4.0-ha fields, defoliation moderate in both fields, July 11, and SW> Mason= 100% in 2 fields with defoliation heavy in 22-ha field and moderate in 20-ha field, July 30. (R.L. Williams).

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - Most widespread alfalfa disease in parts of northern and eastern areas. Defoliation in 1 field indicated by asterisk. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)	Fields infected	Fields surveyed
EC> Wabaunsee	trace	-	20	1	1
NC> Clay*	80-100	light	36-41	3	3
NC> Washington	80	light	46	1	1
NC> Republic	100	light	46	1	1
NC> Cloud	5	light	38	1	1

SPRING BLACK STEM (Phoma medicaginis) - KANSAS - Still affected few alfalfa fields in north-central area. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)	Fields infected	Fields surveyed
EC> Wabaunsee	-	-	20	0	1
NC> Clay	5	light	36-41	1	3
NC> Washington	100	light	46	1	1
NC> Republic	-	-	46	0	1
NC> Cloud	-	-	38	0	1

COMMON LEAF SPOT (Pseudopeziza medicaginis) - KANSAS - District> County= prevalence on alfalfa: NC> Clay= 10% in 1 field. (T. Sim, IV).

YELLOW LEAF BLOTCH (Pseudopeziza jonesii) - KANSAS - District> County= prevalence on alfalfa: NC> Washington= trace in 1 field. (T. Sim, IV).

A CROWN ROT (Fusarium sp.) - KANSAS - District> County= prevalence on alfalfa: NC> Clay= trace in 1 field. (T. Sim, IV).

ALFALFA RUST (Uromyces striatus var. medicaginis) - KANSAS - First of season. District> County= status on alfalfa: SE> Greenwood= reported July 18. (T. Sim, IV).

ALFALFA BACTERIAL LEAF SPOT (Xanthomonas alfalfae) - KANSAS - First of season. District> County= prevalence on alfalfa: NC> Clay= trace in 1 field. (T. Sim, IV).

ALFALFA MOSAIC VIRUS - KANSAS - District> County= prevalence on alfalfa: EC> Wabaunsee and NC> Cloud= trace in single fields. (T. Sim, IV).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - NEW MEXICO - District> County= larvae per 0.09 sq m of alfalfa: SE> Eddy= 4-10 in scattered fields in Artesia area, most noticeable after cutting, as larvae feed on new growth. (L. Gholson).

PEA APHID (Acyrthosiphon pisum) - IDAHO - District> County= adult averages per sweep of alfalfa: SW> Owyhee= 2,000-3,000 near Homedale. (C.R. Baird).

POTATO LEAFHOPPER (Empoasca fabae) - IOWA - District> County= average per sweep of alfalfa: C> Story= 1 in 2 fields. (J. Holmes). ILLINOIS - District> County= status on alfalfa: E> Piatt and NW> Carroll= several reports of damage to third cutting, some infested fields in latter county treated. (K. Black).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults on alfalfa: C> Pinal= 60 and 80-123 per 100 sweeps, Maricopa= 48 and 76-100 per 100 sweeps, and SW> Yuma= 12 and 25 per 10 sweeps. (F. Brooks et al.).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - UTAH - District> County= status on seed alfalfa: C> Millard= damage severe in several fields. (L. Haskell).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - ILLINOIS - District> County= prevalence on soybean [host stage] stems on variety in 1 monitoring plot each, week of July 23: ESE> Fayette= trace [pod 2 cm] on Elf, and SW> St. Clair= trace [bean development] on Amsoy. (E.G. Jordan).

SOYBEAN STEM CANKER (Diaporthe phaseolorum var. caulivora) - KANSAS - District> County= prevalence on soybeans: NC> Clay= trace in 1 field. (T. Sim, IV).

PHYLLOSTICTA LEAF SPOT (Phyllosticta sojaecola) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 23: E> Champaign= trace/trace [flowering] on Union in 1m, ESE> Fayette= 100%/3% [pod 2 cm] on Williams in 1m, WSW> Bond= trace/trace [pod 2 cm] in 1f, Montgomery= trace/trace [pod 2 cm] in 1f, SW> St. Clair= trace/trace [pod 0.5 cm] on Franklin in 1m, Washington= trace/trace [pod 2 cm] in 1f, Jackson= trace/trace [bean development] on Corsoy in 1m, and SE> Pope= trace/trace [flowering] on Essex in 1m. (E.G. Jordan).

SOYBEAN BROWN SPOT (Septoria glycines) - MISSOURI - Area> prevalence/severity on soybeans [pod 0.5 cm]: NE> 40-95%/trace. (A. Foudin). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 23: E> Champaign= 100%/7% [pod 2 cm] on Wells in 1m, ESE> Fayette= 100%/9% [pod 2 cm] on Clark in 1m, WSW> Bond= 100%/2% [pod 2 cm] in 1f, Montgomery= 100%/1% [pod 2 cm] in 1f, SW> St. Clair= 100%/3% [pod 0.5 cm] on Kent in 1m, Washington= 100%/3% [pod 2 cm] in 1f, Jackson= 100%/4% [pod 2 cm] on Franklin in 1m, and SE> Pope= 100%/7% [pod 0.5 cm] on Union in 1m. (E.G. Jordan).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 23: E> Champaign= trace/trace [pod 2 cm] on Beeson in 1m, ESE> Fayette= 100%/1% [pod 2 cm] on Williams in 1m, WSW> Bond= trace/trace [pod 2 cm] in 1f, Montgomery= trace/trace [pod 2 cm] in 1f, SW> St. Clair= 100%/4% [pod 2 cm] on Clark 63 in 1m, Washington= 100%/1% [pod 2 cm] in 1f, Jackson= 100%/4% [pod 2 cm] on Cutler 71 in 1m, and SE> Pope= 100%/9% [pod 2 cm] on Woodworth in 1m. (E.G. Jordan).

FROGEYE LEAF SPOT (Cercospora sojina) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot, week of July 23: E> Champaign= trace/trace [pod 0.5 cm] on Woodworth. (E.G. Jordan).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Most prevalent soybean disease in parts of north-central area. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Fields infected	Fields surveyed
NE> Riley	trace	-	1	1
NC> Clay	80	light	1	1
NC> Washington	-	-	0	1
NC> Republic	trace to 10	light	2	2
NC> Cloud	10	light	1	1

MISSOURI - Area> soybean bacterial blight prevalence/severity on soybeans [pod 0.5 cm]: NE> 75-100%/trace to 8%. (A. Foudin). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in number of commercial fields (f) or monitoring plots (m), week of July 23: E> Champaign= 100%/2% [9 nodes] on Essex in 1m, ESE> Fayette= 100%/4% [pod 0.5 cm] on Kent in 1m, WSW> Bond= 50%/1% [pod 2 cm] in 1f, Montgomery= trace/trace [pod 2 cm] in 1f, SW> St. Clair= 100%/3% [pod 0.5 cm] on Franklin in 1m, Jackson= 100%/7% [pod 2 cm] on Clark 63 in 1m, and SE> Pope= 100%/3% [pod 2 cm] on Cutler 71 in 1m. (E.G. Jordan).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - KANSAS - District> County= prevalence on soybeans: NC> Republic= 5% in 1 field. (T. Sim, IV). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, week of July 23: ESE> Fayette= 100%/2% [pod 2 cm] on Clark, SW> St. Clair= 100%/3% [bean development] on Corsoy, Jackson= 100%/5% [pod 2 cm] on Woodworth, and SE> Pope= 100%/5% [bean development] on Corsoy. (E.G. Jordan).

SOYBEAN MOSAIC VIRUS - ILLINOIS - District> County= prevalence on soybean [host stage] variety in number of commercial fields (f) or monitoring plots (m), week of July 23: E> Champaign= trace [pod 2 cm] on Amsoy 71 in 1m, ESE> Fayette= trace [pod 2 cm] on Woodworth in 1m, WSW> Bond= trace [pod 2 cm] in 1f, SW> St. Clair= trace [pod 0.5 cm] on Franklin in 1m, Washington= trace [pod 2 cm] in 1f, Jackson= trace [flowering] on Essex in 1m, and SE> Pope= trace [bean development] on Beeson in 1m. (E.G. Jordan).

INSECTS

GREEN CLOVERWORM (Plathypena scabra) - IOWA - District> County= larvae on soybeans: C> Story= near 5th and 6th instars, averaged 10 per 0.3 row m in 1 field. (L. Townsend).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - Status on cotton July 18-27, trap dates June 29 to July 19 (C.R. Burgess):

District> County	Pest stage or damage	Number	Unit sample
Upper Coast> Matagorda	punctured squares	5-32%	
Upper Coast> Wharton	punctured squares	0-24%	
Upper Coast> Fort Bend	punctured squares	0-2%	
Northern High Plains> Floyd at South Plains	adults	7	90 traps
Lower Valley> Cameron	punctured squares	0-72	100 plants
Lower Valley> Hidalgo	punctured squares	0-38	100 plants
Lower Valley> Willacy	punctured squares	0-80	
Blacklands> Williamson	damaged squares	under 3%	
Blacklands> Hill & Johnson*	punctured squares	4-60%	
Blacklands> Ellis & Navarro*	punctured squares	1-36%	
Blacklands> Collin & Hunt	punctured squares	2%	
Southern Low Plains> Knox	punctured squares	under 1%	1 field

* Increased to economic levels

SOUTH CAROLINA - District> County= boll weevil status on cotton: S> Allendale and Barnwell= moderate to heavy populations exceeded economic thresholds on about 610 ha, damage light to heavy with up to 50% square damage, controls recommended (J.L. Brewer et al.); Pee Dee area> damage about 10-20%, controls applied (D.G. Manley).

BOLLWORMS (Heliothis spp.) - TEXAS - BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) variable between cotton fields. Egg laying underway in Blacklands, Rolling Plains, and Trans-Pecos areas. Status on cotton July 18-24 (C.R. Burgess et al.):

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Upper Coast> Matagorda	5-110	5-44	not given	terminals
Upper Coast> Wharton	0-79	0-80	not given	terminals
Upper Coast> Fort Bend	4-72	2-8	not given	terminals
Blacklands> Williamson & Milam	8-82	2-16	0-35%	terminals
Southern Low Plains> Fisher & Jones	0-5	0-4	0-5%	plants
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	0-2	not given	not given	terminals
Southern High Plains> Gaines at Seminole	0-6	not given	not given	terminals
Northern Low Plains> Dickens at McAdoo	0-6	not given	not given	terminals
Trans-Pecos> El Paso	5-10	1-4	not given	terminals
Lower Valley> Cameron	0-230	0-52	0-66	plants
Lower Valley> Hidalgo	0-50	0-22	0-18	plants
Lower Valley> Willacy	0-56	0-25	0-17	plants

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Blacklands> Hill & Johnson	0-65	not given	not given	terminals
Blacklands> Ellis & Navarro	2-24	1-4	not given	plants
Blacklands> Collin & Hunt	up to 19	0-12	not given	terminals
Southern Low Plains> Knox	0-15			terminals
Northern High Plains> Floyd at South Plains	under 3%	not given	not given	not given
Trans-Pecos> El Paso & Hudspeth	5-20	0-4	0-2	terminals
Trans-Pecos> Culberson	4-20	0-3	0-2	terminals
Trans-Pecos> Reeves	5-40	0-5	0-5	terminals
Trans-Pecos> Pecos	10-56	0-6	0-2	terminals
Southern High Plains> Glasscock	10-50	0-2	0-2	terminals
Edwards Plateau> Reagan	10-40	0-2	0-2	terminals
Edwards Plateau> Upton	10-20	0-2	0-2	terminals
Southern High Plains> Howard	5-15	0-1	0-1	terminals
Southern High Plains> Martin	5-20	0-1	0-1	terminals
Southern High Plains> Midland	4-20	0-2	0-2	terminals

MISSISSIPPI - Area> Heliothis spp. status on cotton: Statewide> eggs and larvae over general area, still light with eggs decreasing. Second generation egg laying peak seems over. Larvae 1-8% and eggs 2-12%, damage light. (J. Hamer).
SOUTH CAROLINA - H. zea and H. virescens eggs and larvae on cotton statewide. Distict> County= status on cotton: C> Lee and Sumter= eggs 15-30 per plant, and WC> Aiken and C> Calhoun= 100+ per plant, and Clarendon= up to 250 per plant. Controls applied. (D.G. Manley).

ARMYWORM (Pseudaletia unipuncta) - NEW MEXICO - District> County= larval status on cotton: SE> Eddy= moved from alfalfa fields in Artesia area, required treatment. (L. Gholson).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - District> County= status: Upper Delta> Tallahatchie, NE> Pontotoc, and NC> Grenada= larvae light, heavy populations on corn and grain sorghum may indicate problems on cotton later in season. No treatment applied yet. (L. Lambert, J. Hamer).

MISCELLANEOUS FIELD CROPS

INSECTS

BANDED SUNFLOWER MOTH (Phalonia hospes) - NORTH DAKOTA - First of season. District> County= adults on sunflowers week ending July 27: EC> Cass and SE> Ransom= collected July 25. (Lipp).

A PYRALID MOTH (Fumibotys fumalis) - WASHINGTON - District> County= status on peppermint: C> Yakima= 1,006 trapped in light traps from June 18 to July 17, 67 week ending June 20, 26 week ending June 27, 131 week ending July 4, 196 week ending July 11, and 2,591 week ending July 18. No damage yet. (Corcoran et al.).

A WEEVIL (Haplorhynchites aeneus) - NORTH DAKOTA - First of season. District> County= adults on sunflowers week ending July 27: EC> Cass= averaged less than 1 per plant July 25, few heads totally clipped and removed from main stem of plant. (Lipp).

A WEEVIL (Baris strenua) - NORTH DAKOTA - First of season. District> County= adults on sunflowers week ending July 27: EC> Cass= collected July 25. (Lipp).

POTATOES, TOMATOES, PEPPERS

INSECTS

GREEN PEACH APHID (Myzus persicae) - CALIFORNIA - District> County= nymphs and adults on pepper: San Joaquin Valley> Merced= averaged 10 per leaf. (T. Kono). IDAHO - District> County= counts on potatoes: SW> Canyon at Parma and Owyhee at Homedale= 7-76 on 20 leaves in 5 fields and 4-796 in trap pans. (D. Van Deusen).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= trap counts: EC> Grant and Adams= 76 trapped, averaged 1 per trap, up to 7 per trap in commercial orchards; total of 192, 12-31 (average 8) per trap, on backyard trees. (R. Hunter).

WESTERN CHERRY FRUIT FLY (Rhagoletis indifferens) - WASHINGTON - District> County= trap counts: NE> Spokane= 31 trapped, 0-5 (average 1.4) per trap, July 24 and 29, averaged 1.4 per trap week ending July 30 at Green Bluff. (R.F. Harwood).

PEACH TWIG BORER (Anarsia lineatella) - CALIFORNIA - District> County= larvae on almonds: Sacramento Valley> Sutter= 1 per nut at Yuba City. (R. Somerby).

PECAN NUT CASEBEARER (Acrobasis nuxvorella) - NEW MEXICO - District> County= status: SE> Chaves= about 5% nutlets infested in orchard northwest of Roswell. (T. Riddle).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - COLORADO - District> County= average per head of untreated cattle: N> Larimer= 300-400. (K.S. Marshall). MISSOURI - Area> average per side week ending July 28: C and EC> 150-200. (R.D. Hall). MISSISSIPPI - District> County= adults per head on cattle: EC> Noxubee, Oktibbeha, Lowndes, and Clay= stable, 75-200+. (R. Anderson).

FACE FLY (Musca autumnalis) - MISSOURI - Area> average per face week ending July 28: C and EC> 8-10. (R.D. Hall).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A EULOPHID WASP (Tetrastichus julis) - District> County= recoveries of 20+% parasitism unless stated otherwise for Oulema melanopus (cereal leaf beetle) larvae from individual oat fields unless stated otherwise June 1 to July 6. KENTUCKY - Bluegrass> Mercer= 100%, 50%, 57%, and 50% in 4 fields near Salvisa. (T.L. Burger).

VIRGINIA - Three new county records for Tetrastichus julis. C> Buckingham= 9% near Gold Hill, June 1, 1979, and collected by T. Roth. Prince Edward= 18% on wheat near Elam, June 5, 1979, and collected by T. Roth. N> Page= 14% on rye in Springfield Magisterial District, June 8, 1979, and collected by A. Frymeyer. All determined by V.E. Montgomery. C> Buckingham= 37% on wheat near Gilliamsville, W> Botetourt= 59% on rye near Daleville, and N> Page= 63% on wheat in Springfield Magisterial District. (T.L. Burger).

INDIANA - NE> Huntington= T. julis 100% in Jackson Township. MICHIGAN - WC> Newaygo= 100%, 36%, and 40% in 3 fields in Wilcox Township, and 20%, 83%, 75%, and 82% in 4 fields in Norwich Township. OHIO - NC> Ashland= 100% on oats with 79% on wheat in Lake Township, 100% in Mohican Township, and 100% in Milton Township; WC> Champaign= 89% in Johnson Township and 73% on wheat in Wayne Township, Shelby= 92% in Cynthian Township, 100% in Green Township, and 100% in Dinsmore Township; EC> Harrison= 20% on wheat in Moorefield Township, 22% in Rumley Township, and Tuscarawas= 100% in Perry Township; SE> Perry= 20% on wheat in Clayton Township; C> Pickaway= 25% on wheat in Jackson Township, 62% in Sciot Township, 40% on wheat in Harrison Township, 66% in Pickaway Township, and 60% on wheat in Salt Creek Township. (T.L. Burger).

WEST VIRGINIA - New county record for T. julis. SW> Fayette= 49% in New Haven Magisterial District, June 13, 1979, collected by G. Siehl, and determined by V.E. Montgomery. PENNSYLVANIA - EC> Northampton= 75% and 59% in 2 fields in Bushkill Township, 36% in Plainfield Township, 25% in Washington Township, and 48% in East Allen Township, Lehigh= 39% in Lynn Township, 70% and 85% in 2 fields in North Whitehall Township; SE> Berks= 54% in Hereford Township and 79% in Richmond Township; SC> Franklin= 65% in Greene Township; SW> Somerset= 96% in Conemaugh Township, 40% in Stonycreek Township, 54% in Somerset Township, 87% in Brothersvalley Township, 54% in Lincoln Township, and 60% in Addison Township; WC> Butler= 70% and 90% in 2 fields in Connoquenessing Township and 53% in Forward Township. (T.L. Burger).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - OHIO - New county record. District> County= collection data on parasitized (7%) Oulema melanopus (cereal leaf beetle) from wheat fields: C> Pickaway= collected in Harrison Township, June 13, 1979, by G. Hamrick, and determined by V.E. Montgomery. (T.L. Burger).

FEDERAL AND STATE PROGRAMS

DISEASES

A BARLEY STEM RUST (Puccinia graminis f.sp. tritici) collected in Monroe County, WEST VIRGINIA (Bostic), and Brown and Dakota Counties, MINNESOTA, July 12-25. (A.P. Roelfs, D.L. Long).

OAT STEM RUST (Puccinia graminis f.sp. avenae) widely distributed throughout commercial oat fields of north-central United States, July 12-25. Severities ranged 10% [soft dough] to trace [flowering]. Early infection centers observed throughout oat growing area, but in many cases, disease development slowed after first generation due to unavailable free moisture. Initial infected area as large as in 1977, but intensity much less. Losses may occur in some late-maturing oats in the DAKOTAS and MINNESOTA but will be less than in 1977. Following races identified from collections received before July 25 (A.P. Roelfs, D.L. Long):

Area	Number of collections	Number of Isolates of Oat Stem Rust Races								
		NA-1	NA-2	NA-3	NA-5	NA-7	NA-16	NA-24	NA-27	NA-2
FL	2								6	
KS	2						1		4	
MN	1								3	
OK	1						2			
TX> South	81	12	2	4	9	1	6		186	11
TX> North	33	12						6	74	

RYE STEM RUST (Puccinia graminis f.sp. secalis) collections made in 4 counties in southeastern MINNESOTA, July 12-25 (A.P. Roelfs, D.L. Long). Majority of aecial collections from barberry submitted this spring from IOWA, MINNESOTA, and WISCONSIN identified as this rust. Following races identified from collections made at Ontario, Canada: TBM and NA-25. (A.P. Roelfs, D.L. Long).

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) collected July 12-25 on 1 commercial wheat cultivar in Columbia County, WISCONSIN. (Saad). Severity 20% in 1 of these fields. Infections trace on wheat as far north as central MINNESOTA and southeastern NORTH DAKOTA. None found west of Missouri River in North Dakota. Lightest in years and no significant losses expected in resistant spring or durum cultivars. No major shift in physiological races identified thus far. Following races identified from collections received before July 25 (A.P. Roelfs, D.L. Long):

Area	Number of collections	Number of Isolates of Wheat Stem Rust Races												
		11	15			17		29	56	113		151		
		RCM	TDM	TLM	TNM	HDL	HNL	HJC	MBC	RPQ	RTQ	QCB	QFB	QSH
AL	4	7						3						
FL	1					1	2							
GA	6											1	16	
KS	2				2				1				3	
LA	2											6		
OK	4		3	2	2	1								3
TX> South	11				1	1		3		1	3		9	
TX> North	5	3		2		3							1	5
MX> Cd Obregon	6					2	4	9					3	

IOWA - First wheat stem rust of season. District> County= prevalence/severity on wheat [dough] week ending July 17: SC> Lucas= 70%/5-10% on stems and leaves in trap plots. (D.J. Williams).

For other cereal rusts, see p. 561-562.

INSECTS

GRASSHOPPERS - UTAH - Migrated from rangelands to alfalfa fields and gardens in various areas of State. (G.F. Knowlton). District> County= counts per 0.8 sq m of rangeland: C> Sanpete= 5-10 at 1,829-m elevation in Ephraim Canyon. (J.B. Knight). COLORADO - District> County= status on rangeland: SE> Bent, Custer, Fremont, Otero, and Prowers= 53,772.4 ha treated. (R.I. Sullivan). KANSAS - District> County= counts per 0.8 sq m week ending July 27: SC> Comanche= Melanoplus differentialis and Melanoplus bivittatus completely consumed 3 outer rows of soybeans [30 cm tall] along margin of 1 field, about same in weedy margin July 26, none in edge of this field July 24 when weedy margin averaged 30-70; various species averaged 3-20 in rangeland at 2 locations (G.A.

Salsbury); WC> Logan= heavy on rangeland at some stops south of Russell Springs (K.O. Bell, Jr.); and Wallace= averaged 6-11 on rangeland, defoliated forage sorghum at 1 location (M.L. Shuman).

NEBRASKA - District> County= Melanoplus spp. status July 18-26: SW> Keith, Perkins, and Lincoln= majority still in margins and ditches, few fields with grasshoppers as far in as 15 rows, vegetation still lush in margins of 138 corn fields. (Kozub). Counts per 0.8 sq m: NE> Cedar= 5-15 (averaged 8) in 3 field margins and 2 pastures (Vawser); E> Butler= averaged 50 in 4 roadside ditches, 25-50 (averaged 30) in 4 pastures, and ranged up to 5 on up to 5 border rows of corn, milo, and soybeans (Lange); SE> Richardson= averaged 12.5 in 6 roadside ditches (Hopp); NE> Stanton= mostly Melanoplus femurrubrum and M. bivittatus 4-75 (averaged 25.5) in 11 fence rows and waterways (Carlson); SE> Johnson= grasshoppers averaged 17.5 in 1 pasture (Carson), Gage= most still nymphs, 2-10 (averaged 7) in 3 pastures, 2-15 (averaged 8) in 4 waterways, 5-15 (averaged 9) in 5 field margins, and 10-20 (averaged 12) in 4 roadside ditches (Germer), and Thayer= averaged less than 1 in margins of 2 sorghum fields and 2 roadside ditches (Tyser).

GYPSY MOTH (Lymantria dispar) - WEST VIRGINIA - District> County= males in sex lure traps: E> Jefferson= 4 in 2 traps at Harpers Ferry, July 25 (S.A Moore), and 1 at Charles Town, July 27, and Hampshire= 1 at Romney, July 27. (A.E. Tustin).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= counts in pheromone traps per day: C> Maricopa= 1-32 and SW> Yuma= 1-108. (J. Neff et al.).

DETECTION

NEW COUNTY RECORDS

INSECTS

A EULOPHID WASP (Tetrastichus julis) - VIRGINIA - Buckingham, Prince Edward, and Page; WEST VIRGINIA - Fayette. (p. 570).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - OHIO - Pickaway. (p. 570).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation mm	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mamestra quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
FLORIDA																							
Gainesville 7/26-8/1			BL					15	1	11									3	22	4		
INDIANA (Counties)																							
Lagrange 7/26-8/1			BL	7						0						282	16			2			
Tippecanoe 7/26-8/1 1/			BL	11						0						60	36			0			
KANSAS																							
Garden City 7/31, 8/2			BL	2						5						113		2			0		
Haviland 7/31, 8/3, 12			BL	2						21		93				1265		3			15		
MISSISSIPPI																							
Stoneville 7/27-8/2	22-33	9.7	2BL	19	3			4	3	52					1		2	16	7	46	108	32	
NEBRASKA																							
Clay Center 7/27-8/2			BL	10			14			8						121	14	10			9		
Dixon County 7/27-8/1			BL	6			19									30		3					
TEXAS																							
College Station 7/25-31			BL	0	0				0	28				0	1			2		3	2	0	
WEST VIRGINIA (Counties)																							
Kanawha 7/28			BL	1														5					
Monroe 7/30			BL	7						1								54					
WISCONSIN																							
Lancaster 7/26-8/1			BL	0												1	3	2					
Mazomanie 7/26-8/1			BL	0												225	0	4					

1/ 2 Day's data missing

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection & Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Asterolecanium stentae Brain a pit scale Det. S. Nakahara	adult	on stems of Huernia plants from mail	South Africa	Hoboken	TX
Cataenococcus guatemalensis (Ferris) a mealybug Det. S. Nakahara	adult	on leaves of Epidendrum plants from cargo	Mexico	Los Angeles	WA
Cerataphis sp. an aphid Det. M.B. Stoetzel	adult	on leaves of Gastrochilus plants from mail	India	Hoboken	IL
Cerococcus deklei Kosztarab & Vest a cerococcid Det. S. Nakahara	adult	on stems of Hibiscus cuttings from baggage	Bahamas	Nassau	FL
Orgyia thyellina Butler a tussock moth Det. D.M. Weisman	larval	on stems of, Betula stumps from cargo	Japan	Honolulu	HI
Rhyncolus porcatus (Germar) a weevil Det. R.F. Bollinger	adult	in dunnage	Europe	Wilmington	--
Trogoderma granarium Everts khapra beetle Det. F. Krim	larval pupal	in bags of seeds from cargo	India	New York	WI
Helicella virgata DaCosta a helicid snail Det. R. Munkittrick	adult	on container	Italy	Miami	FL

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

August 17, 1979

Vol. 4

No. 30

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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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New Pest Detection and Survey Staff
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Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER eggs and/or larvae on 50% or more of corn in southwestern area of Kansas and northern area of Missouri. (p. 579-580).

GREENBUG 300+ per plant on some soybeans in Panhandle of Oklahoma and southwestern Kansas. (p. 581).

WHEAT DISEASE losses in Kansas in 1979 lighter than average and estimated at 10.6% (compared with 16.5% in 1978 and 13.4% in 1977). Based on July 1 wheat yield estimate of 385.2 million bushels. (T. Sim, IV, W.G. Willis). (p. 582-585 and 595).

OAT CROWN RUST will cause significant yield loss in late-planted oats in northeastern South Dakota. (p. 582).

GRASSHOPPERS still a problem in northern Lower Peninsula of Michigan. (p. 586). Concern to wheat growers in west-central area of Kansas. (p. 596).

A PHYTOPHTHORA ROOT ROT severe on soybeans in southeastern Wisconsin. (p. 587).

Detection

For new county records see page 597.

Some First Occurrences of the Season

Fall armyworm larvae on grass in Arkansas and on alfalfa in Oklahoma.

Reports in this issue are for the week ending August 10 unless otherwise indicated.

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DISEASES

SOUTHERN LEAF BLIGHT (Helminthosporium maydis) - INDIANA - Always on lower senesing leaves, often associated with other organisms, in 6 of 8 fields in WC and SW districts. District> County= prevalence/severity [host stage] July 29 to August 4: WC> Montgomery= trace/trace [blister], Clay= not seen [blister], SW> Greene= 15%/trace [blister], Daviess= 95%/trace [soft dough], Knox= 90%/trace [soft dough], Posey= 90%/5% [blister], Warrick= not seen [tassel], and Spencer= 30%/trace [blister]. (R.A. Schall).

HELMINTHOSPORIUM LEAF SPOT (Helminthosporium carbonum) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 30: W> Warren= 50%/1% [blister], Knox= 10%/trace [silks emerged], NE> La Salle= 20%/trace to 1% [silks emerged], Will= 10%/trace [blister], and E> Kankakee= 20%/trace to 1% [silks emerged]. (E.G. Jordan).

NORTHERN LEAF BLIGHT (Helminthosporium turcicum) - KANSAS - District> County= prevalence/severity on field corn and popcorn in number of fields infected of fields (f) surveyed: NE> Jefferson= 5%/light in 1 of 3f, EC> Douglas= 10-100%/light to moderate in 2 of 3f, and Shawnee= 0 of 2f. (T. Sim, IV).

COMMON SMUT (Ustilago maydis) - KANSAS - District> County= prevalence on field corn and popcorn in number of fields infected of fields (f) surveyed: NE> Jefferson= trace in 1 of 3f, EC> Douglas= trace in 1 of 3f, and Shawnee= trace in 1 of 2f. (T. Sim, IV). MINNESOTA - District> County= prevalence on corn [host stage] leaves on cultivar July 17 to August 2: C> Renville= trace [pre-tassel] on dent in 1 commercial field and SW> Redwood= on 10 of 19 plants [13 leaf] on inbred N28Ht in 1 monitoring plot. (E.L. Stromberg).

ILLINOIS - District> County= common smut prevalence/severity on corn [host stage] in number of commercial fields (f) or monitoring plots (m), week of July 30: W> McDonough= trace [blister] in 1m, Warren= 1% [blister] in 1f, Knox= trace [silks emerged] in 1f, NW> Lee= trace [silks emerged] in 1f, Ogle= 2% [silks emerged] in 1f, NE> La Salle= trace [silks emerged] in 1f, Will= 1% [blister] in 1f, and E> Kankakee= 2% [silks emerged] in 1f. (E.G. Jordan). INDIANA - Severe enough to cause loss in 5 of 8 fields in WC and SW districts. District> County= prevalence on corn [host stage] July 29 to August 4: WC> Montgomery= not seen [blister], Clay= not seen [blister], SW> Greene= trace [blister], Daviess= 1% [soft dough], Knox= not seen [blister], Posey= trace [blister], Warrick= trace [tassel], and Spencer= trace [blister]. (R.A. Schall).

COMMON MAIZE RUST (Puccinia sorghi) - KANSAS - District> County= prevalence/severity on field corn and popcorn in number of fields infected of fields (f) surveyed: NE> Jefferson= 80%/5-10% in 2 of 3f, EC> Douglas= 10%/trace in 1 of 3f, Shawnee= 30%/trace to 5% in 2 of 2f, SC> Kiowa= 100%/1-5% in 1 of 1f, and SW> Morton, Stevens, Grant, Stanton, Finney, and Kearny= 100%/trace to 5% in nearly every field surveyed. (T. Sim, IV). MISSOURI - Area> prevalence on corn: NC> trace to 1%, very late first appearance of year in this area. (A. Foudin).

MINNESOTA - District> County= common maize rust prevalence on plants of corn [host stage] cultivar in number of commercial fields (f) and monitoring plots (m) July 24 to August 2: SE> Dakota= trace [12 leaf] on sweet corn hybrid in 1m; SC> Waseca= trace [12 leaf] on 3 inbreds in 1m; SW> Jackson= trace [12 leaf] on dent corn, fourth leaf from apex, in 1f; Murray= trace [silk] on dent

corn in 1f; Pipestone= common maize rust 40% with severity trace [silk] on dent corn in 1f; Redwood= trace [silk] on Golden Cross Bantam sweet corn, [silk] on inbreds, [silk] on CM53, [silk] on ND474, and [pretassel] on hybrid N28Htx Mo17Ht in 1m; WC> Swift= trace [silk] on dent corn in 1f; Yellow Medicine= trace [tassel] on dent corn in 1f; and C> Renville= 30% with severity trace [pretassel] on dent corn, fourth leaf from apex, in 1f. (E.L. Stromberg).

ILLINOIS - District> County= common maize rust prevalence/severity on corn [host stage] leaves in number of commercial fields (f) or monitoring plots (m) week of July 30: C> Logan= trace/trace [silks emerged] in 1m, W> Warren= trace/trace [blister] in 1f, Knox= trace/trace [silks emerged] in 1f, NW> Lee= trace/trace [silks emerged] in 1f, Ogle= trace/trace [silks emerged] in 1f, NE> De Kalb= trace/trace [silks emerged] in 1m, La Salle= trace/trace [silks emerged] in 1f, Will= trace/trace [blister] in 1f, and E> Kankakee= trace/trace [silks emerged] in 1f. (E.G. Jordan).

INDIANA - District> County= prevalence/severity on corn [host stage] in 1 field each, July 29 to August 4: WC> Montgomery= not seen [blister], Clay= trace/trace [blister], SW> Greene= trace/trace [blister], Daviess= trace/trace [soft dough], Knox= not seen [blister], Posey= not seen [blister], Warrick= not seen [tassel], and Spencer= not seen [blister]. (R.A. Schall).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - IOWA - New county record. District> County= collection data from Zea mays (corn) [midwhorl to tassel]: SC> Lucas= prevalence 100%/severity 3-10% in 1 commercial field near Millerton, collected July 7, 1979, by P.S. Bengtson, determined by D.J. Williams. (D.J. Williams). ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 30: NW> Lee= trace/trace [silks emerged], NE> La Salle= trace/trace [silks emerged], Will= 10%/trace [blister], and E> Kankakee= 100%/2% [silks emerged]. (E.G. Jordan).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - District> County= prevalence/severity on sorghum in number of fields infected of fields (f) surveyed: NE> Brown= 80%/light in 1 of 1f, Doniphan= 5%/light in 1 of 1f, Atchison= 0 in 1f, and Nemaha= 10%/light in 1 of 2f. (T. Sim, IV).

CORN BROWN SPOT (Physoderma maydis) - KANSAS - District> County= prevalence on corn in number of fields infected of fields (f) surveyed: EC> Shawnee= 5% and 10% in 2 of 2f, and Douglas and NE> Jefferson= 0 in fields surveyed. (T. Sim, IV).

A CURVULARIA LEAF SPOT (Curvularia sp.) - KANSAS - District> County= prevalence/severity on field corn and popcorn in number of fields infected of fields (f) surveyed: NE> Jefferson= trace to 60%/light in 3 of 3f, EC> Douglas= 5%/light in 1 of 3f, and Shawnee= 0 in 2f. (T. Sim, IV).

HOLCUS SPOT (Pseudomonas syringae) - MINNESOTA - District> County= prevalence/severity on corn [host stage] on cultivar in number of commercial fields (f) or monitoring plots (m) July 18-31: SC> Faribault= 100%/trace [pretassel] on lower leaves on dent corn in 1f, SW> Jackson= 100%/trace [pretassel] on lower leaves of dent corn in 1f, Lincoln= 80%/trace [12 leaf] on lower leaves of dent corn in 1f, Redwood= 100%/trace to 3% on various inbreds in monitoring plots, WC> Lac qui Parle= 70%/trace [12 leaf] on lower leaves of dent corn in 1f, Stevens= 100%/trace on various inbreds in 1m, Swift= 100%/trace to 5% [10 leaf] on lower leaves of dent corn in 1f, C> Renville= 100%/trace [pretassel] on lower one-third of plants on dent corn in 1f, and Sibley= 100%/trace [silk] on dent corn in 1f. (E.L. Stromberg).

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Most widespread sorghum disease in northeastern area. Little damage expected at this time. District> County= prevalence on sorghum in 1 field each: NE> Atchison, Brown, and Doniphan= trace. (T. Sim, IV).

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - District> County= prevalence on sorghum: NE> Brown, Doniphan, and Nemaha= trace in single fields, and Atchison and Jackson= not observed. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= prevalence/severity of symptoms on field corn and popcorn in number of fields infected of fields (f) surveyed: NE> Jefferson= 1-2%/light in 2 of 3f, EC> Douglas= trace to 50%/light to moderate in 2 of 3f, and Shawnee= 1%/light in 1 of 2f. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - COLORADO - Area> status: NE> second generation adult flight and egg laying occurred. (R.L. Phillips). KANSAS - District> County= status on corn in number of fields (f): NE> Leavenworth= egg masses averaged 4-5 per 100 plants with up to 8 on older corn, egg laying decreased, mostly 2nd instars on 30-45% of plants, adults none (H.L. Brooks); SW> Ford= eggs and/or larvae on 20-90% of plants in 6f; SC> Kiowa= eggs and/or larvae on 0-44% of plants in 5f (larvae generally less than 0.64 mm long), some fields treated; and Stafford= eggs and/or larvae on 8-24% of plants in 4f (J.R. VanKirk) and on 40% of plants in 1f, and hatch 53% in 1f (D.D. Calvin, R.J. Whitworth). Flights continuing at all trapping stations (except Tribune) but generally decreased. (K.O. Bell, Jr.).

NEBRASKA - District> European corn borer status: NE> Dixon County= most females mated but few laid eggs, most second generation females not yet emerged, NE, E, and SE> adults continued to increase slowly in light traps (Witkowski et al.), E, SE, and S> second generation egg laying underway (Peters, Miller), and SW> egg laying about 7-10 days away (Campbell, Kozub).

IOWA - Area> European corn borer status on corn: S> adults increased sharply in blacklight traps, EC and NC> adults increased moderately, and C> few egg masses in fields, significant egg laying expected week of August 13. (L.H. Townsend). MISSOURI - Area> status on corn: NC and NE> moderate to heavy populations on late-planted corn, larvae 10-40 per 10 plants, leaf feeding damage on 6-84% of corn [green silks]. (R.E. Munson). ILLINOIS - Area> status on corn: Northern one-third of State> pupae and 5th instar larvae still in corn, second generation activity including egg laying, hatch, and larval feeding relatively light, and egg mass counts in most fields well below threshold of 0.5 egg mass per plant. Based on number of adults observed, egg laying should increase in northern area next period. (K. Black). MICHIGAN - District> County= status on corn: SW> Allegan (Morrow), Cass, SC> Calhoun (Hammon), and Jackson (Heilig)= egg masses in "black head" stage found.

OHIO - Second generation European corn borer adult flight increased. District> County= egg masses per 20 corn plants: SE> Hocking= 1 and Meigs= 2, hatch noted in both counties; percent plants [silk to mature] showing first generation damage (sample of 3 random areas per field for total of 20 plants): SE> Washington= 45%, -, and -, Meigs= 50%, 5%, and 5%, Athens= 5%, Hocking= 30%, and Perry= 70%. (G.P. Walker).

MARYLAND - District> County= European corn borer status on field corn: Eastern Shore> egg masses and young larvae up to 32% and C area> 13%; catches per night last 7 days: Eastern Shore> Worcester= 6, Somerset= 3, Wicomico= 7, Dorchester= 9, Talbot= 23, Caroline= 25, NC> Queen Annes= 43, Kent= 33, Cecil= 40, Harford= 23, Baltimore= 35, and C> 75. (J.L. Hellman).

NEW YORK - District> County= European corn borer status on vegetables: Long Island> Suffolk= adults averaged 200+ per week per blacklight trap (Semel); C> Cayuga= adults, second brood of multivoltine strain, began increase; Cayuga, Oneida, W> Ontario, and Wayne= damage to processing beans, unusual, probably related to flight activity between normal brood flights, possibly indicating significant univoltine strain activity throughout central region this year; W> Orleans and Monroe= adult activity significant in field August 3 (H.R. Willson).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - OKLAHOMA - District> County= status on corn: Panhandle> Texas= second generation eggs reported. (D.C. Arnold). KANSAS - District> County= status on corn in number of fields (f): SW> Finney= adults trapped at Garden City (D.D. Calvin, R.J. Whitworth), Ford= none in 6f (J.R. VanKirk), and Seward= some eggs hatched in 1f (K.O. Bell, Jr.); SC area> flights continued at trap locations in western part, eggs and/or larvae on 60% of plants in 1f and eggs on 48% of plants in another field (D.D. Calvin, R.J. Whitworth); and SC> Stafford= none in 4f and Kiowa= none in 4 of 5f, eggs on 8% in 1f. (J.R. VanKirk).

ARMYWORM (Pseudaletia unipuncta) - MICHIGAN - District> County= status week ending July 20: Upper Peninsula> Menominee= heavy on small grains, corn, and alfalfa (R. Breyer), EC> Sanilac= small larvae heavy on oats (R. Seiting), SC> Clinton= 2 per corn plant (N. Yajure), and SW> Cass= some larvae on alfalfa and grasses (R. Hammon).

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= status on sweet corn week ending August 3: WC> Roger Mills= damaged 100% of plants in 1 field; currently on sorghum: NC> Grant= infested terminals averaged 80%. (D.C. Arnold). MISSISSIPPI - District> County= percent infested late-planted corn: Southeast & Coastal> Jasper= 12%, C> Scott= 15%, EC> Noxubee= 21%, and Neshoba= 17%. (R. Anderson). TENNESSEE - Area> status: Statewide> heavy on corn ears. (M.E. Cooper). MARYLAND - Infested 2-6% of unsprayed sweet corn statewide. District> County= adult catches per night last 7 days: Eastern Shore> Worcester= 3, Somerset= 2, Wicomico= 1, Dorchester= 1, Caroline= 1, Talbot= 1, NC> Cecil= 1, Kent= 2, and S> St. Marys= 1. None in other counties. (J.L. Hellman).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Larvae heavily infested grain sorghum and late-planted corn. District> County= percent infested ears: Southeast & Coastal> Jasper= 70%, C> Scott= 24%, EC> Noxubee= 62%, and Neshoba= 74%. (R. Anderson). TENNESSEE - District> County= status on corn: Cumberland Plateau> Bledsoe= larvae up to 17 per stalk, damage heavy on late corn. (M.D. Austin, M. Cooper). KENTUCKY - Area> status on corn: Statewide> larvae continued to damage late-planted fields. (P.E. Sloderbeck). MARYLAND - Area> larval status on late sweet corn: Eastern Shore> damage moderate, 10-40%, in all areas. (J.L. Hellman). NEW YORK - District> County= status on corn: SE> Ulster= infested most sweet corn fields and damage 10-30% (Straub), and 40-50% damaged in Capital District (Cuniglio), C> Cayuga= larvae heavy on late plantings, adults increased in pheromone traps, especially in late-planted corn (H.R. Willson).

WESTERN BEAN CUTWORM (Loxagrotis albicosta) - NEBRASKA - District> County= status on corn: NE> Antelope and Pierce= egg masses and/or larvae on some plants in 9 of 26 fields, plants infested up to 30% (averaged 7%) in these 9 fields (Witkowski, Jarvi), and SW> Keith, Perkins, and Lincoln= larvae light and scattered (Campell).

POTATO STEM BORER (Hydroecia micacea) - NEW YORK - New county record. District> County= collection data on corn [20-25 cm tall]: C> Oneida= late instar larvae at Boonville, June 29, 1979, collected by B. Field, and determined by B. Field and H. Willson (H. Willson).

CORN ROOTWORMS (Diabrotica spp.) - NEBRASKA - District> County= adult averages per corn plant: NE> Antelope= less than 0.5 in 25 fields (Witkowski, Jarvi), and S and SE> less than 1 in most fields (Peters). MISSOURI - Area> counts per 10 corn plants: NC and NE> adults 1-51, populations about 50% WESTERN CORN ROOTWORM (D. virgifera) and 50% NORTHERN CORN ROOTWORM (D. longicornis). (R.E. Munson). IOWA - D. virgifera and D. longicornis peaked on corn over much of State, mostly western corn rootworm in fields surveyed in southwestern area. District> County= western corn rootworm and northern corn rootworm, respectively, per 100 plants, 5 fields each: SW> Montgomery= 36 and 14, Mills= 56 and 0, Fremont= 40 and 0, and Page= 56 and 0. (J. Crouch). MARYLAND - Area> D. longicornis status on corn: Statewide> egg laying underway, larval damage very light, lodging less than 2% in most heavily infested fields, and C> adults 11-20 per 100 ears. (J.L. Hellman).

GREENBUG (Schizaphis graminum) - OKLAHOMA - District> County= counts per sorghum [host stage] plant week ending August 3: Panhandle> Texas= up to 2,000 [preboot], some fields treated and 10-25 [25-30 cm tall] on late-planted fields. Current status on sorghum: Panhandle> Texas= 3,000-4,000 per plant [boot] in some fields and 50-400 per plant [38-51 cm tall], some fields treated, parasitism averaged 1% or less in earlier fields; and NC> Grant= infestations very light in 9 fields. (D.C. Arnold).

KANSAS - District> County= greenbug status per sorghum plant in number of fields (f): SW> Grant, Stevens, Morton, Stanton, and Hamilton= 1,000-2,000 in untreated fields (much lighter in WC> Lane County), treated fields noted in all (except Lane County), no parasitism seen (M.L. Shuman); Seward= averaged 30-2,200 [56 cm to bloom] and parasitism only in eastern and southern areas (K.O Bell, Jr.); Ford= 70-250 in 4f and parasitism 0 (J.R. VanKirk); Haskell= 0 (treated) to 4,000 [71 cm to milk] in 4f; Gray, WC> Lane, and Ness= 2,000, 300, and 260 [boot to bloom], respectively, in 3f, and "firing" of plants due to drought in Lane and Ness Counties seemed to adversely affect greenbugs; NE> Pottawatomie= 10 and 50 [bloom] in 2f and parasitism 2-5% (K.O. Bell, Jr.); Nemaha= heavily parasitized greenbugs averaged 120 [bloom] (B.D. Hilbert); and Leavenworth= trace in some fields and predators heavy (H.L. Brooks); SC> Stafford= 0-200 in 7f and parasitism 0; Kiowa= 0-250 in 6f and parasitism trace in 1f (J.R. VanKirk);

NEBRASKA - District> County= greenbug status on sorghum: SE> Clay= up to 4,400 (averaged 1,000) per plant on susceptible varieties at south-central station, parasitism by Lysiphlebus testaceipes (an aphidiid wasp) less than 5% (Peters) and NE> Cedar= trace in 1 field (Witkowski, Jarvi).

CORN LEAF APHID (Rhopalosiphum maidis) - OKLAHOMA - District> County= range per sorghum plant: NC> Grant= 30-100. (D.C. Arnold).

CHINCH BUG (Blissus leucopterus leucopterus) - OKLAHOMA - District> County= status on sorghum week ending August 3: NE> Craig= still heavy in some areas. (D.C. Arnold). NEBRASKA - District> County= status on sorghum [boot and early heading]: SE> Gage= still caused yellowed leaves. (Germer).

BANKS GRASS MITE (Oligonychus pratensis) - COLORADO - District> County= status on corn: N> Larimer= economic with colonies reaching ear zone leaves. (W.M. Hantsbarger).

SMALL GRAINS

DISEASES

Small grain development 1-2 weeks behind normal July 26 to August 8 in north-central States, but crop will develop fast with continued warm weather and adequate moisture. About half of small grains are combined in Pacific Northwest. (A.P. Roelfs, D.L. Long).

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) prevalent at low levels on commonly grown spring wheat cultivars in MINNESOTA and SOUTH and NORTH DAKOTA, July 26 to August 8. No significant increase expected on spring wheat. (A.P. Roelfs, D.L. Long).

KANSAS - Wheat leaf rust loss estimated at 1.5% or 5,778,000 bushels compared with 1.5% in 1978. Area> status of wheat: Parts of NW, NC, and C> buildup late and most severe, final flag leaf severity 10-25% in fields surveyed; and rest of State flag leaf severity 5-10%. (T. Sim, IV, W.G. Willis).

NORTH DAKOTA - District> wheat leaf rust prevalence/severity on spring wheat [kernel forming to dough] week of July 30: C, NE, SE, NC, and EC> prevalent/light (trace to 1%) in most fields with 100%/10-30% in occasional fields of susceptible varieties. (V.L. Jons). MINNESOTA - District> County= prevalence/severity on wheat [host stage] flag leaf on cultivar Era in 1 commercial field each, August 1: WC> Chippewa= 100%/trace to 2% [early dough], Swift= 100%/trace [early dough], and Yellow Medicine= 100%/trace to 5%. (E.L. Stromberg).

OAT CROWN RUST (Puccinia coronata var. avenae) severe in some late-planted oats in northern SOUTH DAKOTA and west-central MINNESOTA, July 26 to August 8. Fields [milk] with severities up to 60% will have 5-10% losses. As in 1978, severely infected oat fields generally scattered and later maturing. Little resistance in commonly grown oat cultivars in this area. (A.P. Roelfs, D.L. Long).

SOUTH DAKOTA - Oat crown rust most prevalent foliar disease of oats. Yield loss will be significant in late-planted fields in northeastern area. District> County= prevalence/severity on oats [dough] week of July 30: NE> Roberts= 99%/5-40%, Deuel= 99%/70%, Grant= 99%/60%, and Codington= 99%/50%. (V.L. Jons). MINNESOTA - District> County= prevalence on oats [host stage] in 1 commercial field each: SC> Brown= 100%/5% [late anthesis] July 26, SW> Lincoln= 100%/trace to 5% [early milk] July 18, and Pipestone= 100%/trace to 5% [early dough] August 2. (E.L. Stromberg).

BARLEY LEAF RUST (Puccinia recondita f.sp. hordei) - NORTH DAKOTA - District> County= prevalence/severity on barley [host stage] cultivar in 1 commercial field each, week of August 6: NE> Cavalier= 100%/20% [dough] on Glenn and 100%/10% [milk] on Beacon. (V.L. Jons).

For stem rusts see p. 588.

LOOSE SMUT (Ustilago nuda) - KANSAS - Estimated loss trace on wheat, same as 1978 estimate, in nearly all parts of State. (T. Sim, IV, W.G. Willis).

BARLEY COVERED SMUT (Ustilago hordei) - NORTH DAKOTA - District> County= prevalence on barley cultivar Beacon week of August 6: NE> Cavalier= 13% in 1 commercial field. (V.L. Jons).

OAT LOOSE SMUT (Ustilago avenae) - MINNESOTA - District> County= prevalence on oats [late anthesis] July 26: SC> Brown= 2% in 1 commercial field. (E.L. Stromberg).

TAKE-ALL (Gaeumannomyces graminis var. tritici) - KANSAS - Estimated loss 0.5% or 1,926,000 bushels compared with 2.0% in 1978. Area> status on wheat: Western one-half> less obvious in 1979, and eastern one-half> few severely infected fields observed. (T. Sim, IV, W.G. Willis).

WHEAT POWDERY MILDEW (Erysiphe graminis f.sp. tritici) - KANSAS - Estimated loss 1.0% or 3,852,000 bushels compared with 0.5% in 1978. Area> status on wheat: Statewide> most severe in thick-seeded, heavily fertilized wheat in eastern two-thirds area, and head infections observed often in eastern one-third area. (T. Sim, IV, W.G. Willis).

SPECKLED LEAF BLOTCH (Septoria tritici) - KANSAS - Estimated loss 0.5% or 1,926,000 bushels of wheat statewide compared with 1.0% in 1978. (T. Sim, IV, W.G. Willis). MINNESOTA - District> County= prevalence/severity on wheat [host stage] flag leaf in 1 commercial field each, August 1-2: WC> Chippewa= 100%/40% [early dough] on cultivar Era, Swift= 100%/10-30% [early dough] on Era, Yellow Medicine= 100%/30-40% [early dough] on Era, and SW> Murray= 100%/10% [early milk]. (E.L. Stromberg).

A SEPTORIA LEAF BLOTCH (Septoria sp.) - NORTH DAKOTA - District> County= prevalence/severity on spring and durum wheat [milk to dough] week of August 6: NE> Grand Forks, Walsh, Pembina, Cavalier, and Ramsey= trace to 70%/trace to 5%, and C> Eddy, Foster, and Stutsman= trace to 50%/trace to 2%. (V.L. Jons).

TAN SPOT (Pyrenophora trichostoma) - KANSAS - Estimated loss 1.5% or 5,778,000 bushels compared with 1.0% in 1978. Area> status on wheat: C> most prevalent in continuous wheat areas but could be found statewide. (T. Sim, IV, W.G. Willis).

Tan spot most prevalent foliar disease of spring and durum wheat in South and North Dakota. SOUTH DAKOTA - District> County= prevalence/severity on spring wheat [dough] week of July 30: NE> Roberts, Grant, Deuel, and Codington= 99%/5-30% and EC> Brookings= 99%/20%. (V.L. Jons). NORTH DAKOTA District> County= prevalence/severity on spring wheat [host stage] week of July 30: C> Traill, Steele, Griggs, Barnes, and Cass= 99%/1-10% [milk], SE> Richland, Ransom, La Moure, Logan, McIntosh, Dickey, and Sargent= 99%/5-10% [dough]; week of August 6: NE> Grand Forks, Walsh, Cavalier= 100%/10-30% [milk to dough], Pembina= 50-99%/trace to 10% [kernel half formed to dough], Cavalier= 100%/5-30% [kernel half formed to dough], Ramsey= 100%/40-50% [dough], C> Eddy, Foster, and Stutsman= 100%/5-40% [dough], and EC> Barnes= 99%/5-10% [dough]. (V.L. Jons).

ERGOT (Claviceps purpurea) - SOUTH DAKOTA - District> County= prevalence on spring wheat [dough] week of July 30: NE> Deuel= trace. (V.L. Jons). NORTH DAKOTA - District> County= prevalence on spring wheat [dough] week of July 30: EC> Cass= trace; week of August 6: NE> Grand Forks, Walsh, and Cavalier= trace. (V.L. Jons).

A SCAB (Fusarium sp.) - SOUTH DAKOTA - District> prevalence on spring wheat week of July 30: NE and EC> moderate. (V.L. Jons). NORTH DAKOTA - District> County= prevalence on spring wheat week of July 30: EC and SE> light; on spring and durum wheat [milk to dough] week of August 6: NE> Grand Forks= moderate, and Walsh, Pembina, Cavalier, and Ramsey= light. (V.L. Jons). MINNESOTA - District> County= prevalence of scab caused by Fusarium spp. on wheat [host stage] in 1 commercial field each, August 1: WC> Chippewa= 10% [early dough] on cultivar Era, Swift= 2% [early dough] on Era, and SW> Murray= 1% [early milk]. (E.L. Stromberg).

A CROWN ROT (Fusarium sp.) - KANSAS - This disease and a DRYLAND ROOT AND FOOT ROT (Helminthosporium sp.) combined with winter injury caused estimated wheat loss of 2.0% or 7,704,000 bushels. Area> prevalence on wheat: Parts of NC and NE> common; statewide> fields in nearly all areas affected; N one-half> dry conditions last fall slowed plant development making plants more susceptible to very cold winter temperatures; rains in late April and early May aided wheat recovery. (T. Sim, IV, W.G. Willis).

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - KANSAS - Estimated wheat loss 1.5% or 5,778,000 bushels compared with estimated 0.9% in 1978. District> County= status on wheat: C> McPherson, SC> Harvey, and Sedgwick= most severe in this area, but reported from all 6 C and E districts. (T. Sim, IV, W.G. Willis).

SMOOTH-SPORED BUNT (Tilletia foetida) - KANSAS - Estimated loss trace, 50-100% loss in some fields in several areas of State where wheat seed not treated. (T. Sim, IV, W.G. Willis).

XANTHOMONAS BACTERIAL STRIPE (Xanthomonas translucens) - NORTH DAKOTA - District> County= prevalence/severity on host [host stage] week of August 1: NE> Cavalier= 99%/5% on barley [dough] on cultivar Glenn in 1 commercial field, and Grand Forks, Walsh, Pembina, Cavalier, and Ramsey= trace to 50%/ trace to 10% on spring wheat [milk to dough]. (V.L. Jons).

BARLEY YELLOW DWARF VIRUS - KANSAS - Reduced from levels in 1978, due to absence of aphid vectors in fall and early spring, wheat losses estimated trace compared with 0.8% in 1978. (T. Sim, IV, W.G. Willis). MINNESOTA - District> County= prevalence of red leaf on oats [late anthesis] July 26: SC> Brown= 3% in 1 commercial field. (E.L. Stromberg).

WHEAT STREAK MOSAIC VIRUS - KANSAS - Estimated loss 0.5% or 1,926,000 bushels compared with 3.5% in 1978. District> County= status on wheat: SC> Pratt and Kiowa= some severely affected fields where volunteer wheat present summer of 1978; most of western one-half area> mild symptoms from late infections evident in scattered fields. (T. Sim, IV, W.G. Willis).

SOILBORNE WHEAT MOSAIC VIRUS - KANSAS - Estimated wheat loss 1.6% or 6,130,100 bushels compared with 3.5% in 1978. Area> prevalence on wheat: SC and C> most prevalent in continuous wheat areas, eastern two-thirds> in most counties, and SW> Gray and Ford Counties= on irrigated wheat in Sand Hills of Arkansas River Valley. (T. Sim, IV, W.G. Willis).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - MICHIGAN - See armyworm in corn, page 580.

HESSIAN FLY (Mayetiola destructor) - KANSAS - District> County= status on wheat: SC> Kiowa= adults heavy and eggs 30-100 per tiller in volunteer field August 3 but none currently found. (G.A. Salsbury).

GREENBUG (Schizaphis graminum) - IDAHO - Area> counts: E> common on wheat and barley, 1-2 to 75-100 per plant. (L.E. Sandvol).

TURF, PASTURES, RANGELAND

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - ARKANSAS - First of season. District> County= larvae: SC> Union= detected in Bermudagrass meadows, about 4 weeks later than usual. (G. Barnes).

AN ARCTIID MOTH (Cisseps fulvicollis) - OREGON - County= status: Klamath= larvae heavy on about 2,000 ha of pastureland in upper Klamath Marsh during July, loss of native coarse grasses extensive. Two experimental treatments ineffective. Second generation adults emerging. (J. Capizzi, R. Hathaway).

BLUEGRASS BILLBUG (Sphenophorus parvulus) - IOWA - Area> damage to turf: NC> evident in this area, once confined to west-central area. (D.R. Lewis).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - No defoliation observed. District> County= prevalence/severity on alfalfa [host height] in number of fields infected of fields (f) surveyed: NE> Pottawatomie= 75-90%/light [3-5 cm] in 2 of 2f, Jefferson= 100%/moderate [30 cm] in 1 of 1f, EC> Shawnee= 75-85%/light [25-30 cm] in 2 of 2f, and SC> Pratt= 100%/moderate [no data] in 1 of 1f. (T. Sim, IV).

COMMON LEAF SPOT (Pseudopeziza medicaginis) - MISSOURI - Area> prevalence/severity on alfalfa: SW> 40-95%/ranged from no appreciable effect to cause of early harvest in commercial fields. (A. Foudin).

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - First of season. District> County= larvae on alfalfa: SC> Stephens= 2 collected July 25. (D.C. Arnold).

ALFALFA LOOPER (Autographa californica) - WASHINGTON - District> County= total adults (and average) per trap week of July 16 and July 23, respectively: W> Snohomish, Skagit, and Whatcom= 568 (70.5) and 479 (43.5). (P. Eide).

ARMYWORM (Pseudaletia unipuncta) - IOWA - Potential threat to alfalfa regrowth. (L.H. Townsend). MICHIGAN - See armyworm in corn, page 580.

VARIEGATED CUTWORM (Peridroma saucia) - IOWA - Potential threat to alfalfa regrowth. (L.H. Townsend).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= counts per 10 sweeps of alfalfa: C> Payne and Lincoln= 5-10. (D.C. Arnold).

SPOTTED ALFALFA APHID (Therioaphis maculata) - OKLAHOMA - District> County= counts per 10 sweeps of alfalfa August 2-9: Panhandle> Ellis, Harper, NC> Major, Woods, Alfalfa, Woodward, C> Payne, Lincoln, SW> Kiowa, and SC> Johnston= 1-5, SW> Caddo= 30, NC> Grant= 100, and WC> Roger Mills= 160. (D.C. Arnold).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: C> Pinal= 36 and 1,148 and SW> Yuma= moderate. (S. Kozloski et al.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa: SE> Cochise= 75 and 50, C> Pinal= 12 and 4, and SW> Yuma= 80-120 and 80-150. (S. Kozloski et al.).

GRASSHOPPERS - MICHIGAN - Still very much a problem in northern Lower Peninsula week ending July 20. District> County= status: NE> Otsego and Montmorency= moved from cut hay fields to adjacent fields (L. Howard), EC> Saginaw= light on alfalfa and weeds (J. Weigold), and Upper Peninsula> Menominee= no problem yet (R. Breyer). Worst year in decades. Another year of favorable grasshopper weather could result in severe problems next season. (R. Ruppel).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - MISSOURI - Area> prevalence of stress death symptoms caused by mixture of this disease, CHARCOAL ROT (Macrophomina phaseolina), and FUSARIUM ROOT AND COLLAR ROT COMPLEX (Fusarium spp.) on soybeans in commercial fields: Statewide> less than 0.001% of total number of plants in field, plants dead and dying mainly on edges of fields, started to appear during recent hot (32-35°C), dry weather. (A. Foudin).

ILLINOIS - District> County= prevalence of phytophthora rot on soybean [host stage] stems on cultivar (if given) in number of commercial fields (f) or monitoring plots (m) week of July 30: W> McDonough= trace [pod 2 cm] on Woodworth in 1m, NW> Putnam= trace [seed development] on Amsoy in 1m, Ogle= trace [seed development] on Corsoy in 1f, NE> De Kalb= trace [pod 2 cm] on Wells in 1m, Will= trace [pod 2 cm] in 1f, and E> Kankakee= trace [seed development] in 1f. (E.G. Jordan). MINNESOTA - District> County= prevalence on soybeans [host stage]: C> Renville= trace [early bloom] in 1 commerical field July 17, and SW> Redwood= trace [full bloom] on cultivar Sloan in 1 monitoring plot July 31. (E.L. Stromberg).

A PHYTOPHTHORA ROOT ROT (Phytophthora megasperma) - WISCONSIN - Found in many fields especially in southeastern area. District> County= status on soybeans week ending August 3: SE> Racine and Kenosha= severe development destroyed 40-50% of plants in infected fields. Very dry conditions contributed to decline, problem worse where beans grown continuously for 3+ years. (O.L. Lovett).

SOYBEAN BROWN SPOT (Septoria glycines) - MINNESOTA - District> County= prevalence/severity on soybeans [host stage] in number of commercial fields (f) or monitoring plots (m) July 24 to August 2: SC> Brown= 100%/trace to 2% [mid-bloom] in 1f, Faribault= 50%/trace [full bloom] in 1f, Waseca= 100%/trace [prebloom to early pod set] on 28 cultivars in 1m, SW> Jackson= 10%/trace [full bloom] in 1f, Murray= 100%/1% [early pod set] in 1f, Pipestone= 100%/trace [early bloom] in 1f, Redwood= 100%/trace to 1% [prebloom to early pod set] on 28 cultivars in 1m, WC> Stevens= trace to 100%/trace [prebloom to pod set] on 28 cultivars in 1m, Swift= 100%/trace [late bloom] in 1f, Yellow Medicine= 100%/trace [early pod set] in 1f, C> Renville= 100%/trace [early pod set] in 1f, and Sibley= 100%/trace [full bloom] in 1f. (E.L. Stromberg).

ILLINOIS - District> County= prevalence/severity of soybean brown spot on soybean [host stage] leaves on cultivar (if given) in number of commercial fields (f) or monitoring plots (m) week of July 30: C> Logan= 100%/1% [seed development] on Amsoy in 1m, W> McDonough= 100%/3% [seed development] on Beeson in 1m, Warren= 100%/1% [pod 2 cm] in 1f, Knox= 100%/6% [seed development] in 1f, NW> Putnam= 100%/1% [pod 2 cm] on Woodworth in 1m, Lee= 100%/4% [seed development] in 1f, Ogle= 100%/5% [seed development] in 1f, NE> De Kalb= 100%/4% [pod 2 cm] on Amsoy 71 in 1m, La Salle= 100%/3% [pod 2 cm] in 1f, Will= 100%/2% [pod 2 cm] in 1f, and E> Kankakee= 100%/4% [seed development] in 1f. (E.G. Jordan).

INDIANA - Prevalence/severity of soybean brown spot ranged 10-90%/trace to 15% in 8 of 8 fields in WC, SW, and C districts. District> County= prevalence/severity on soybeans [host stage] July 29 to August 4: WC> Montgomery= 18%/5% [flower below uppermost node], Clay= 27%/5% [flower below uppermost node], SW> Greene= 33%/5% [7 nodes], Daviess= 90%/15% [pod 0.5 cm], Knox= 59%/5% [pod 0.5 cm], Warrick= 57%/5% [pod 0.5 cm], Spencer= 24%/2% [flower below uppermost node], and C> Morgan= 10%/trace [flower below uppermost node and 6 nodes (replanted)]. (R.A. Schall).

PHYLLOSTICTA LEAF SPOT (Phyllosticta sojaecola) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar (if given) in number of commercial fields (f) or monitoring plots (m) week of July 30: C> Logan= trace/trace [seed development] on Amsoy in 1m, W> McDonough= trace/trace [seed development] on Beeson in 1m, Warren= trace/trace [pod 2 cm] in 1f, Knox= trace/trace [seed development] in 1f, NW> Putnam= trace/trace [pod 0.5 cm] on Cutler 71 in 1m, Lee= trace/trace [seed development] in 1f, Ogle= trace/trace [seed development] in 1f, NE> De Kalb= trace/trace [flowering] on Kent in 1m, La Salle= trace/trace [pod 2 cm] in 1f, Will= trace/trace [pod 2 cm] in 1f, and E> Kankakee= trace/trace [seed development] in 1f. (E.G. Jordan). MINNESOTA - District> County= prevalence/severity on soybeans [host stage] July 25: SC> Faribault= 90%/trace [full bloom] on lower leaves in 1 commercial field. (E.L. Stromberg).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - KANSAS - First appearance in these counties. District> County= prevalence/severity on soybeans in number of infected fields of fields (f) surveyed: NE> Jefferson= 60%/light in 1 of 2f, Atchison= trace/- in 1 of 1f, Doniphan= trace/- in 1 of 1f, Brown= 30%/light in 1 of 2f, and Jackson= 60%/light in 1 of 2f. (T. Sim, IV).

ILLINOIS - District> County= soybean downy mildew prevalence/severity on soybean [host stage] leaves on cultivar (if given) in number of commercial fields (f) or monitoring plots (m) week of July 30: C> Logan= trace/trace [pod 0.5 cm] on Clark in 1m, W> McDonough= trace/trace [pod 2 cm] on Elf in 1m, Warren= trace/trace [pod 2 cm] in 1f, Knox= trace/trace [seed development] in 1f, NW> Putnam= trace/trace [seed development] on Wells in 1m, Lee= trace/trace [seed development] in 1f, Ogle= trace/trace [seed development] in 1f, NE> De Kalb= 100%/1% [pod 0.5 cm] on Clark in 1m, La Salle= trace/trace [pod 2 cm] in 1f, Will= trace/trace [pod 2 cm] in 1f, and E> Kankakee= trace/trace [seed development] in 1f. (E.G. Jordan).

INDIANA - Soybean downy mildew prevalence 10-95%/severity trace in 6 fields in WC, SW, and C districts. District> County= prevalence/severity on soybeans [host stage] in 1 field each, July 29 to August 4: WC> Montgomery= 50%/trace [flower below uppermost node], Clay= 50%/trace [flower below uppermost node], SW> Greene= not seen [7 nodes], Daviess= 10%/trace [pod 0.5 cm], Knox= 95%/trace [pod 0.5 cm], Warrick= not seen [pod 0.5 cm], Spencer= 10%/trace [flower below uppermost node], and C> Morgan= 40%/trace [flower below uppermost node and 6 nodes (replanted)]. (R.A. Schall).

BROWN STEM ROT (Phialophora gregata) - WISCONSIN - District> County= status on soybeans week ending August 3: SE> Racine= began to develop browning of pit tissue, development will continue until harvest with leaf symptoms becoming apparent later. (O.L. Lovett).

SOYBEAN STEM CANKER (Diaporthe phaseolorum var. caulivora) - ILLINOIS - District> County= prevalence on soybean [pod 0.5 cm] stems week of July 30: NE> De Kalb= trace on cultivar Woodworth in 1 monitoring plot. (E.G. Jordan).

A POWDERY MILDEW (Microsphaera diffusa) - WISCONSIN - First of season. District> County= prevalence on soybeans: SE> Racine= light in 1 field. (O.L. Lovett).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Most widespread soybean disease in parts of northeastern area. District> County= prevalence/severity on soybeans in number of fields infected of fields (f) surveyed: NE> Jefferson= 100%/light in 2 of 2f, Atchison= trace/- in 1 of 1f, Doniphan= trace/- in 1 of 1f, Brown= 80%-100%/light in 2 of 2f, Nemaha= 50%/light in 1 of 1f, and Jackson= 5%/light in 1 of 2f. (T. Sim, IV).

MINNESOTA - District> County= soybean bacterial blight prevalence/severity on soybeans [host stage] in number of commercial fields (f) or monitoring plots (m) July 18 to August 2: SC> Brown= 100%/trace [midbloom] in 1f, Faribault= 100%/trace [full bloom] in 1f, Waseca= 100%/trace to 5% [prebloom] to early pod set] on 28 cultivars in 1m, SW> Jackson= 100%/trace to 5% [full bloom] in 1f, Lincoln= 100%/trace [early bloom] in 1f, Murray= 100%/trace [early pod set] in 1f, Pipestone= 100%/trace [early bloom] in 1f, Redwood= 100%/trace to 10% [prebloom to late pod set] on 28 cultivars in 1m, Rock= 100%/trace to 3% [early bloom] in 1f, WC> Chippewa= 100%/trace to 5% [5 trifoliolate leaves] in 1f, Lac qui Parle= 100%/trace to 5% [5 trifoliolate leaves] in 1f, Stevens= 100%/trace to 3% [prebloom to pod set] on 28 cultivars in 1m, Swift= 100%/trace [late bloom] in 1f, Yellow Medicine= 100%/trace [early pod set] in 1f, C> Renville= 100%/trace to 5% [early pod set] in 1f, and Sibley= 100%/trace to 2% [full bloom] in 1f. (E.L. Stromberg).

ILLINOIS - District> County= soybean bacterial blight prevalence/severity on soybean [host stage] leaves on cultivar (if given) in number of commercial fields (f) or monitoring plots (m) week of July 30: C> Logan= 100%/5% [seed development] on Amsoy 71 in 1m, W> McDonough= 100%/3% [pod 2 cm] on Williams in 1m, Warren= 100%/4% [pod 2 cm] in 1f, Knox= 100%/8% [seed development] in 1f, NW> Putnam= 100%/3% [seed development] on Wells in 1m, Lee= 100%/3% [seed development] in 1f, Ogle= 100%/9% [seed development] in 1f, NE> De Kalb= 100%/4% [flowering] on Clark 63 in 1m, La Salle= 100%/4% [pod 2 cm] in 1f, Will= 100%/2% [pod 2 cm] in 1f, and E> Kankakee= 100%/3% [seed development] in 1f. (E.G. Jordan).

INDIANA - District> County= soybean bacterial blight prevalence/severity on soybeans [host stage] July 29 to August 4: WC> Montgomery= not seen [flower below uppermost node], Clay= 1%/trace [flower below uppermost node], SW> Greene= not seen [7 nodes], Daviess= not seen [pod 0.5 cm], Knox= not seen [pod 0.5 cm], Warrick= not seen [pod 0.5 cm], Spencer= not seen [flower below uppermost node], and C> Morgan= not seen [flower below uppermost node and 6 nodes (replanted)]. (R.A. Schall).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves in number of commercial fields (f) or monitoring plots (m) week of July 30: W> McDonough= 100%/7% [seed development] on cultivar Corsoy in 1m, Knox= trace/trace [seed development] in 1f, NW> Putnam= 100%/4% [seed development] on Corsoy in 1m, Lee= 100%/3% [seed development] in 1f, Ogle= 100%/1% [seed development] in 1f, NE> De Kalb= 100%/1% [pod 2 cm] on cultivar Amsoy 71 in 1m, La Salle= 100%/1% [pod 2 cm] in 1f, Will= trace/trace [pod 2 cm] in 1f, and E> Kankakee= 50%/1% [seed development] in 1f. (E.G. Jordan). KANSAS - District> County= prevalence on soybeans in 1 field each: NE> Doniphan= 90% and Nemaha= 20%. (T. Sim, IV).

BEAN YELLOW MOSAIC VIRUS - INDIANA - District> County= prevalence on soybeans [host stage] in 1 field each, July 29 to August 4: WC> Montgomery= not seen [flower below uppermost node], Clay= not seen [flower below uppermost node], SW> Greene= not seen [7 nodes], Daviess= not seen [pod 0.5 cm], Knox= not seen [pod 0.5 cm], Warrick= not seen [pod 0.5 cm], Spencer= trace [flower below uppermost node], and C> Morgan= not seen [flower below uppermost node and 6 nodes (replanted)]. (R.A. Schall).

SOYBEAN MOSAIC VIRUS - ILLINOIS - District> County= prevalence on soybean [host stage] cultivar (if given) in number of commercial fields (f) or monitoring plots (m) week of July 30: C> Logan= trace [seed development] on Wells in 1m, W> McDonough= trace [pod 0.5 cm] on Union in 1m, Warren= trace [pod 2 cm] in 1f, Knox= trace [seed development] in 1f, NW> Putnam= trace [pod 0.5 cm] on Kent in 1m, Lee= trace [seed development] in 1f, NE> De Kalb= trace [pod 2 cm] on Corsoy in 1f, and Will= trace [pod 2 cm] in 1f. (E.G. Jordan).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - TENNESSEE - District> County= status on soybeans: Cumberland Plateau> Bledsoe= defoliation about 30-35% in 1 field, controls applied. (M.D. Austin). OHIO - Infestations heavy on soybeans in southern area. Many adults newly emerged, larvae not plentiful. District> County= larvae and adults (defoliation) per sweep: SE> Perry= 0.02 and 2.6 (about 25%) and 0.04 and 3.6 (20-25%) in second field, Morgan= 0.02 and 2.4 (10-15%), Muskingum= 0.14 and 2.8 (25-30%), and Hocking= no data and 0.6 (negligible) in young field [46 cm tall], apparently recently migrated to field. (G.P. Walker).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= status on soybeans: EC> Muskogee, NE> Wagoner, and SE> McCurtain= averaged 1 or 2 per 0.3 row m. (D.C. Arnold). MISSOURI - Area> small larvae (average) per 3.0 row m of soybeans: NC and NE> 0-80 (14) in late-planted fields. (R.E. Munson).

PEANUTS

INSECTS

REDNECKED PEANUTWORM (Stegasta bosqueella) - OKLAHOMA - District> County= average percent infested peanut terminals on cultivar, August 2: SC> Marshall= 18.6% on Florunner and 29.3% on Spanhoma. (D.C. Arnold).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - OKLAHOMA - District> County= average percent peanuts infested: SC> Marshall= 2% in 1 field, none in most fields checked. (D.C. Arnold).

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= counts on peanuts: SC> Marshall= 0-2 per 0.3 row m. (D.C. Arnold).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - MISSISSIPPI - Area> status on cotton: S> current major economic pest throughout, and NC district> De Soto County= caused problems this far north. (R.B. Head).

BOLLWORMS (Heliothis spp.) - OKLAHOMA - District> County= BOLLWORM (H. zea) eggs and larvae per 100 cotton terminals week ending August 3: SW> Jackson, Greer, Harmon, Tillman, and Kiowa= 0-18, and C> Canadian= larvae 5 with damage 4%. Current status on cotton: SC> Bryan= damaged squares averaged 15% and SW> Tillman= larvae averaged 2 or less per 100 terminals in Tipton area. (D.C. Arnold). MISSISSIPPI - Area> Heliothis spp. on cotton: Statewide> infestations continued light with scattered "hotspots" in fields above economic levels, light trap catches ranged 0-11 per night. (R.B. Head).

TENNESSEE - District> County= Heliothis spp. on cotton: Delta> Lauderdale and Shelby, and West Tennessee> Haywood and Crockett= square damage averaged 2%; Tipton= square damage averaged 6% in 1 field; McNairy and Hardeman= populations light; and Central Basin> Lincoln, and Cumberland Plateau> Franklin= damage up to 4%. (R. Patrick, et al.).

MISCELLANEOUS FIELD CROPS

DISEASES

SUNFLOWER RUST (Puccinia helianthi) - NORTH DAKOTA - District> County= prevalence/severity on sunflowers week of August 6: NE> Cavalier= 100%/2-10% in 1 commercial field and trace in other fields. (V.L. Jons).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - NEW HAMPSHIRE - Area> status on potatoes: SE> first generation adult egg laying underway, population increase expected soon. (J.F. Burger).

EUROPEAN CORN BORER (Ostrinia nubilalis) - OHIO - District> County= percent damaged potato vines: SE> Washington= 55% in 1 field, only empty pupal skins in dissected vines. (G.P. Walker).

TOMATO HORNWORM (Manduca quinquemaculata) - OHIO - District> County= percent pepper plants with feeding damage: SE> Washington= 2% and 4% in 2 commercial fields. Most larvae nearly full grown and defoliation heavy on infested plants. (G.P. Walker). NEW YORK - First of season. District> County= adults in light trap: C> Cayuga= 2 collected July 26. (H.R. Willson).

TOMATO PINWORM (Keiferia lycopersicella) - OKLAHOMA - First of season. District> County= status on tomatoes: C> Payne= light in garden July 30. (D.C. Arnold).

A TORTRICID MOTH (Platynota stultana) - CALIFORNIA - District> County= status on peppers: San Joaquin Valley> San Joaquin= larvae damaged up to 10% of peppers on about 200 ha in Collegeville area. (K. Brown).

GREEN PEACH APHID (Myzus persicae) - IDAHO - District> County= status on potatoes: E> Power, Bingham, Bannock, and Bonneville= began to colonize in commercial fields. (L.E. Sandvol).

BEANS AND PEAS

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - OHIO - District> County= status on snap beans: SE> Meigs= egg masses 0.27, larvae 0, and adults 0.73 per plant in 1 commercial field (G.P. Walker), and C> Franklin= egg masses observed (R.H. Davidson).

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEW YORK - See corn on p. 580.

POTATO LEAFHOPPER (Empoasca fabae) - OHIO - District> County= status on snap beans: SE> Meigs= "hopperburn" moderate on 50% of plants in 1 commercial field. (G.P. Walker).

TARNISHED PLANT BUG (Lygus lineolaris) - MICHIGAN - District> County= status on dry beans: EC> Saginaw= heavy (J. Weingold), will continue to increase during flower and small pod stage. (T. Dudek).

COLE CROPS

INSECTS

IMPORTED CABBAGEWORM (Pieris rapae) - OHIO - District> County= status on cabbage: SE> Meigs= larvae about 1 per plant, pupae common, and adults very heavy in 2-ha field. Damage on about 80-90% of plants severe to point of being unmarketable. (G.P. Walker). NEW YORK - District> County= status on vegetables:

Finger Lakes region> imported cabbageworm eggs up to 350 per 40 plants, adults heavy week ending August 3 (Pedersen), and significant larval activity increase expected (H.R. Willson).

CABBAGE LOOPER (Trichoplusia ni) - NEW YORK - First of season. District> County= status: S> Tompkins= caught in blacklight trap. (Bogen). Area> status on vegetables: Statewide> adult blacklight trap catches increased slowly. Lake Erie region (Rutkowski), Capital District (Cuniglio), Finger Lakes region (Pedersen), and Lake Ontario region> larval activity increased in field (Grad).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= total adults (average) per trap in backyard apple and crab apple trees: EC> Grant= (7), ranged 2-22 per trap in trees week ending August 4, and Grant and Adams= 72 (about 1) in commercial orchards week of August 7. (R. Hunter). IDAHO - District> County= pheromone counts: SW> Canyon= 5 on July 23, 8 on July 26, 3 on July 30, and 4 on August 6 in Central Cove area. (H.W. Homan). OHIO - District> County= adults in pheromone traps July 31 to August 6: NE> Wayne and NC> Ashland= 16 in 4 traps. (F. Hall). NEW YORK - District> County= status on fruit: SE> Ulster= first brood adult catch in pheromone traps significantly increased, more than twice level of previous week. (Weires).

APPLE MAGGOT (Rhagoletis pomonella) - MICHIGAN - Became more threatening to apples and other fruit trees since heavy rains. Adults flying into commercial orchards from abandoned trees and other hosts. Caught in 8 of 20 commercial orchards monitored past period. (L. Olsen, G. Howitt). NEW YORK - First of season. Area> status: Lake Ontario region> picked up on sticky boards June 26 (Norton), and Lake Ontario fruit region> adult activity increased on fruit following wet weather past week, activity declined thereafter (Leeper et al.). NEW HAMPSHIRE - First of season. County= adults: Hillsboro= collected from pheromone traps at Wilton on July 20, expected to increase next few weeks. (J.F. Burger).

WHITE APPLE LEAFHOPPER (Typhlocyba pomaria) - WASHINGTON - District> County= status on apples and prunes week of August 7: C> Yakima= some first generation nymphs heavy near Tieton, Naches, and Zillah. Second generation first noted between July 10-14 and seemed to be increasing rapidly. (Gregorich).

EUROPEAN RED MITE (Panonychus ulmi) - MICHIGAN - Populations very heavy in many apple orchards with bronzing evident, predators active in few blocks. (L. Olsen, G. Howitt).

PECAN WEEVIL (Curculio caryae) - OKLAHOMA - District> County= status on pecans: NE> Rogers= adult emergence underway and 1 orchard treated as early as August 4. (D.C. Arnold). MISSISSIPPI - District> County= status: EC> Monroe= first adults emerged early (August 10 in 1978), probably due to increased rainfall during July. (W.W. Neel).

District> County	No. per 12 cone traps	Date	District> County	No. per 12 cone traps	Date
SW> Wilkinson	2	Jul 23	SW> Wilkinson	3	Aug 6
SW> Wilkinson	1	Jul 30	SW> Hinds	4	Aug 3
SW> Wilkinson	2	Aug 2	SW> Hinds	3	Aug 5

WALNUT HUSK FLY (Rhagoletis completa) - OREGON - District> County= status on deciduous nuts: Yamhill= first emergence July 27 in Dundee area, counts less than 1 per day per trap July 27 to August 6. (F.P. Larson).

SMALL FRUITS

INSECTS

GRAPE ROOT BORER (Vitacea polistiformis) - ARKANSAS - District> County= adults on grapes: NW> Washington= first male emerged July 20 at Springdale. (D.T. Johnson).

FOREST AND SHADE TREES

DISEASES

DUTCH ELM DISEASE (Ceratocystis ulmi) - MARYLAND - Much more evident than in past 2 years statewide on American elms. (J.L. Hellman).

District> County	City	Healthy (%)	Symptomatic (%)	Number of trees surveyed
S> Anne Arundel	Annapolis	61	39	87
S> Prince Georges	College Park	42	58	50
NC> Baltimore City	Baltimore	52.5	47.5	108
NC> Montgomery	Rockville	91	9.0	103

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - New county record. District> County= collection data: C> Pulaski= found in sections of wood from trunk of dead Pinus sylvestris (Scotch pine) from residence at Little Rock, July 19, 1979, collected by B. Washburn, determined by R.T. Robbins. (M.A. Mayse).

INSECTS

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NEVADA - New county record. District> County= collection data: NE> Eureka= in pheromone trap on power pole at Palisade, July 24, 1979, collected by R. Bradley and R. Rowe, and determined by R.C. Bechtel. (R.C. Bechtel).

ELM LEAF BEETLE (Pyrrhalta luteola) - OKLAHOMA - District> County= status: NC> Payne and EC> Muskogee= new generation of adults active on elm trees. (D.C. Arnold).

FALL WEBWORM (Hyphantria cunea) - NEW HAMPSHIRE - County= status: Strafford, Rockingham, Merrimack, and Hillsboro= only 1 web in 240 km in southern area, webs appeared very scarce throughout southeastern area but more common in northeastern area. Populations generally sharply reduced from 1978 levels. (T. Durkis, J. Burger).

FOREST TENT CATERPILLAR (Malacosoma disstria) - MARYLAND - District> County= status: Eastern Shore> Wicomico= defoliation 30-40% on mixed hardwood on about 1,000 ha. (J.L. Hellman, Dekker).

UGLYNEST CATERPILLAR (Archips cerasivoranus) - OREGON - County= larval status on Ponderosa pine [0.9 m tall]: Klamath= destroyed or deformed terminals in 162-ha planting near Klamath Falls. Immatures fed on native cherry and plum brush past 3 years, completely denuded these this year, and moved over to Ponderosa pines. (J. Swaby, R. Westcott).

MAN AND ANIMALS

INSECTS

FACE FLY (Musca autumnalis) - OKLAHOMA - District> County= status on cattle week ending August 3: NE> Craig= moderate. (D.C. Arnold). NEBRASKA - District> County= average per head on treated cattle: SW> Lincoln and C> Dawson= 7. (Campbell).

HORN FLY (Haematobia irritans) - OKLAHOMA - District> County= counts per head on cattle week ending August 3: WC> Washita= up to 1,000; currently: SE> Choctaw= averaged 120 in herd of cows and 1,000 in herd of bulls and NE> Craig= moderate. (D.C. Arnold).

STABLE FLY (Stomoxys calcitrans) - NEBRASKA - District> County= counts per leg on cattle: NE> Cuming= 0.5-6 (averaged 2.7%) in 6 feedlots (Jarvi) and SW> Lincoln and C> Dawson= averaged 12.5 on untreated cattle (Campbell).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

CINNABAR MOTH (Tyria jacobaeae) - WASHINGTON - District> County= larvae on Senecio jacobaea (tansy ragwort) July 26: W> Clark, Lewis, and Thurston= widespread, appeared in many new areas; defoliation slight to complete.(C. Shanks).

FEDERAL AND STATE PROGRAMS

DISEASES

Traces of a BARLEY STEM RUST (Puccinia graminis f.sp. tritici) in barley experimental plots in Codington County, SOUTH DAKOTA, July 26 to August 8. Little or no disease expected to develop in commercial fields. Collections in western KANSAS in late June identified as race TLM. (A.P. Roelfs, D.L. Long).

OAT STEM RUST (Puccinia graminis f.sp. avenae) trace in commercial fields throughout northern oat-growing region July 26 to August 8. Severities 60% in few SOUTH DAKOTA fields but losses will be light in these fields due to advanced crop stages. Losses may occur in some late-maturing oats in the DAKOTAS and MINNESOTA but will be less than in 1977. Following races identified from collections received before August 8 (A.P. Roelfs, D.L. Long):

Area	Number of Collections	Number of Isolates of Oat Stem Rust Races								
		NA-1	NA-2	NA-3	NA-5	NA-7	NA-16	NA-24	NA-27	NA-29
FL	2								6	
KS	4						1		7	
MN	2								6	
OK	1						2			
TX> South	81	12	2	4	9	1	6		186	11
TX> North	34	12						6	76	

SOUTH DAKOTA - District> County= oat stem rust prevalence/severity on oats [dough] week of July 30: NE> Roberts, Codington, Deuel, Grant, and EC> Brookings= 99%/3%. (V.L. Jons). NORTH DAKOTA - District> prevalence on oats [milk] week of July 30: SE, EC, and C> trace in most fields. (V.L. Jons). MINNESOTA - District> County= prevalence/ severity on oats [host stage] in 1 commercial field each: SC> Brown= trace/no data [late anthesis] July 26, and SW> Pipestone= 100%/trace to 10% [early dough] August 2. (E.L. Stromberg).

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) collections made in MICHIGAN winter wheat field (Clayton) and in spring wheat nursery at Champaign, ILLINOIS (Jedlinski), July 26 to August 8, for first collections in these 2 States in 1979. Traces in north-central IOWA spring wheat nursery. (Michel). Still lightest infection in years and no significant losses expected in resistant spring or durum cultivars. Following races identified from collections received before August 8 (A.P. Roelfs, D.L. Long):

		No. of Isolates of Wheat Stem Rust Races														
		11		15			17		29	56	113			151		
Area	No. of Collec.	RCM	RCR	TDM	TLM	TNM	HDL	HNL	HJC	MBC	RKQ	RPQ	RTQ	QCB	QFB	QSH
AL	4	7							3							
FL	1						1	2								
GA	6													1	16	
KS	4					3				1	1				3	
LA	2													6		
MN	1														3	
OK	4			3	2	2	1									3
SD	2		2			1				1						
TX> South	11					1	1		3			1	3		9	
TX> North	5	3			2		3								1	5
MX> Cd Obregon	6						2	4	9						3	

KANSAS - Almost no loss due to wheat stem rust although wheat maturity somewhat delayed. Losses estimated trace in 1978. Area> status on wheat: SC> few pustules observed when wheat mature. (T. Sim, IV, W.G. Willis). SOUTH DAKOTA - District> County= prevalence/severity on spring wheat [dough] on cultivar week of July 30: NE> Codington= 99%/3% on Bounty 309, and 99%/15% on Aim. (V.L. Jons).

For other cereal rusts, see p. 582.

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - Larvae, some adults, taken on oats for new county records in 1979. (O.L. Lovett).

District> County	Near	Date	Collector	Determiner
EC> Calumet	Brillion	Jul 10	O.L. Lovett	R.E. White
EC> Manitowoc	Cato	Jul 10	O.L. Lovett	R.E. White
EC> Brown	Wayside	Jul 10	O.L. Lovett	R.E. White
SC> Jefferson	Sullivan	Jul 13	J. Nara & K. Winston	R.E. White
SC> Dodge	Neosho	Jul 13	J. Nara & K. Winston	R.E. White
SE> Washington	Thompson	Jul 13	J. Nara & K. Winston	R.E. White

GRASSHOPPERS - CALIFORNIA - Unusual activity. District> County= status of Melanoplus devastator: Siskiyou-Shasta> Siskiyou= averaged 40 per 0.8 sq m, ate top growth of oak trees in Northern Great Basin District, at Yreka (G. Buxton), and grasshoppers chewed wood covered with stain and ate paint off buildings, August 6 (D. Horn). OREGON - County= status of rangeland grasshoppers, mainly Melanoplus sanguinipes: Wallowa= treatment completed August 3. Preliminary estimate of 600,000 ha treated to control worst outbreak in past 40 years. Particularly heavy in parts of central area where hundreds per 0.8 sq m completely stripped all rangeland vegetation including juniper trees. (K.J. Goeden, J. Mellott).

OKLAHOMA - District> County= grasshoppers week ending August 3: Panhandle> Texas= began to move into gardens as weeds dried up, SC> Bryan= moderate to heavy in pastures, gardens, and crops, SC> Coal= heavy in pastures and crops, and SW area> common on cotton, damage generally light. Current range per 0.8 sq m: C> Kingfisher= Melanoplus differentialis 10-30 on roadside and field margins in 1 area and various bandedwing species 6-8 in pastures, C> Payne= M. differentialis and other species 4-10 in area including riverbank, roadside, and margin of blackeyed pea field; EC> Muskogee and NE> Wagoner= Melanoplus spp. 1-2 in soybean fields and up to 15 in fence rows around fields. (D.C. Arnold).

KANSAS - District> County= grasshopper status: EC> Coffey, Anderson, SE> Allen, Elk, Wilson, and Woodson= generally light at most stops in adult survey (S.C. White); WC area> heavy numbers on some roadsides and/or rangeland still caused growers concern in some westernmost counties about possible wheat damage this fall, roadside treatment failure in Greeley County (K.O. Bell, Jr.). Melanoplus sanguinipes status: Greeley= some hatch along roadsides (M.L. Shuman); SC> Kiowa= second generation hatch first noted in this county, 1st instars on wheat stubble July 30 (G.A. Salsbury); C> Barton, SW> Clark, Meade, Seward, and Haskell= hatch continued, up to 3rd instars on alfalfa and/or wheat stubble, first generation adults usually less than 1 per 0.8 sq m of wheat stubble in last 3 counties (K.O. Bell, Jr.).

NEBRASKA - Melanoplus spp., about 70% adults, range (average) per 0.8 sq m: SE> Thayer= 3-8 (5.9) in 2 roadside ditches and 0.3 (1.4) in margins of 2 sorghum fields (Tyser) and Gage= 5-10 (7) in 3 roadside ditches, 3-8 (5) in margins of 4 fields (alfalfa, sorghum, and corn), 5-10 (6) in 3 grassy waterways, and 2-9 (6) in 4 pastures. (Germer).

NORTH DAKOTA - Adult survey on cropland began July 31. Mostly Melanoplus femurrubrum, Melanoplus bivittatus, M. sanguinipes, Melanoplus packardii, and Melanoplus dawsoni 5th instars with M. femurrubrum 3rd instar to adult. (Nelson, C.G. Scholl).

District> County	Adult average per 0.8 sq m	
	Field	Margin
C> Kidder	3	5.4
SE> Dickey	4.6	5.3
SE> LaMoure	1.3	5.2
SE> Ransom	0.8	3.2
SE> Sargent	1.8	3.2

GYPSY MOTH (Lymantria dispar) - NEW HAMPSHIRE - Adults very noticeable in widely scattered areas. County= status on forest and shade trees July 24-30: Strafford= females laying eggs common throughout Durham, Merrimack= new

gypsy moth infestation at Allenstown, at least 40 females laying eggs in 20 sq m area, many males present, few old egg masses, infestation seemed in very early stage of development. Status week of July 30: Hillsboro= 200-300 females laying eggs in 3,000-sq m area of forest in Lyndeborough area, appeared to be another concentrated infestation. Populations appear to be increasing statewide. (J.F. Burger).

JAPANESE BEETLE (Popillia japonica) - NEW YORK - District> County= status: C> Oneida and Herkimer= first reported July 2. (Wratten).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= pheromone trap catches per trap per day: C> Maricopa= 1-16 and SW> Yuma= 6-62 (infestation 2-18% in cotton). (P. Gomez et al.).

DETECTION

NEW COUNTY RECORDS

DISEASES

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - IOWA - Lucas. (p. 578).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - Pulaski. (p. 593).

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - Calumet, Manitowoc, Brown, Jefferson, Dodge, and Washington. (p. 595).

POTATO STEM BORER (Hydroecia micacea) - NEW YORK - Oneida. (p. 581).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NEVADA - Eureka. (p. 593).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (mm)	Type of trap (BL - blacklight, I - incandescent, MV - mercury vapor, O - other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 7/23-8/5			BL	1					1	4					2		10	23	219		2	20		
FLORIDA																								
Gainesville 8/2-8			BL					19		6										7	5			
KANSAS																								
Haviland 8/7-9			BL	1						11			trace			315		0			11		
Hays 7/31, 8/7			BL	0						0			to 14			0		0			1		
KENTUCKY (Counties)																								
Fayette 7/31-8/5			BL	6	2											42	1	31		0	112			
Hickman 8/3-9			BL													34		5						
MINNESOTA																								
Fergus Falls 8/1-7	11-27	10.2	BL	2				3		1						4	6					2		
Le Sueur 8/1-7	13-32	40.6	BL	16												233	1	1				2		
MISSISSIPPI																								
Stoneville 8/3-9	20-34	16	2BL	12	1			7		44								6	6	29	35	48		
NEBRASKA																								
Aurora 7/26-8/8			BL	26			23							1		375	16	31			4			
Clay Center 8/3-9			BL	1			13			1						185	18	2			2			
OHIO (Counties)																								
Putnam 7/31-8/6			BL	6	1											139	10	63			3	1		
Wayne 8/2-8			3BL	2												77	4	70			1	1		
TENNESSEE																								
Selmer 8/8			BL							0										3	2			
Springhill 8/2-9			BL													7		18						
TEXAS																								
College Station 8/1-7			BL	0	0				0	5				0	1			0		3	2	1		
WISCONSIN																								
Lancaster 8/2-8			BL	0												19	0	0						
Mazomanie 8/2-8			BL	0												196	0	0						

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Phyllachora engleri Speg. a fungus Det. F. Matthews	perfect	on leaves of Anthurium plants from cargo	Honduras	Miami	FL
Puccinia sp. a rust Det. F.G. Pollack	telial	on leaves of Mystacidium plants from mail	South Africa	Hoboken	CA
Arhopalus unicolor (Gahan) a cerambycid beetle Det. D.M. Anderson	larval	in wood pallets of nails	Korea	Savannah	GA
Hylurgops palliatus (Gyllenhal) a scolytid beetle Det. R.F. Bollinger	larval adult	in wood crates of machinery	West Germany	Wilmington	NC
Incisitermes sp. a termite Det. D.R. Smith	adult	in wood crates of leather	Uruguay	New York	NJ
Maruca testulalis (Geyer) bean pod borer Det. R.K. Kunishi	larval	in stems of Sesbania from baggage	Hawaii	Honolulu	CA
Orchamoplatus mammaeferus (Q&B) a whitefly Det. R.K. Kunishi	pupal	on leaves of Codiaeum from baggage	Hawaii	Honolulu	CA
Pachydissus sp. a cerambycid beetle Det. D.M. Anderson	larval	in logs	Cameroon	Philadelphia	PA

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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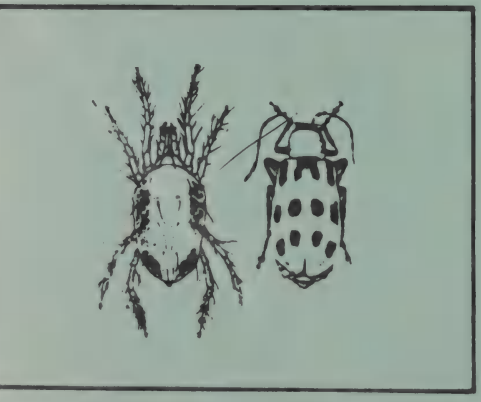
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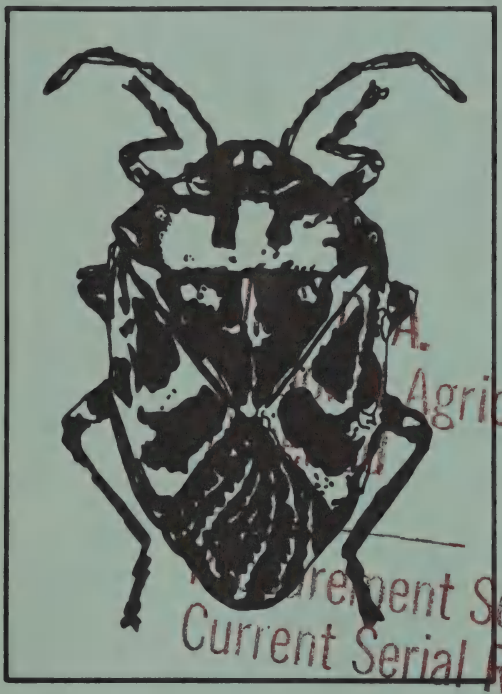
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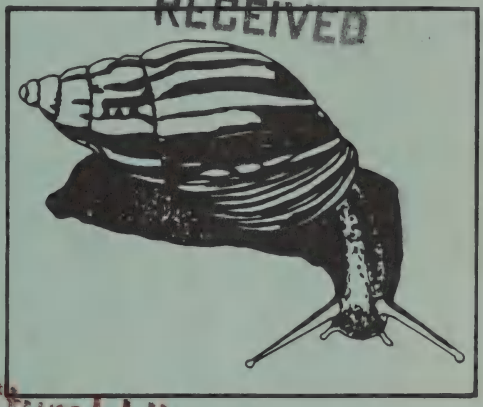
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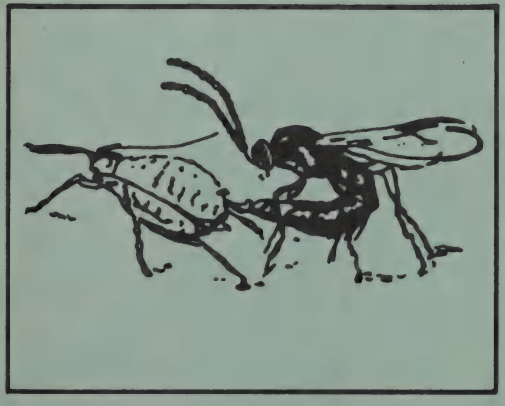
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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New Pest Detection and Survey Staff
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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

GREENBUG heavy on sorghum in parts of Texas and Oklahoma. (p. 606).

Problem with PEANUT LEAF SPOT on peanuts in parts of northwestern Florida. (p. 611).

GRASSHOPPER damage to crops continued in parts of Texas and Oklahoma. (p. 617)

Detection

For new county and other records see page 618.

Some First Occurrences of the Season

POTATO AND TOMATO LATE BLIGHT on potatoes in Wisconsin.

Reports in this issue are for the week ending August 17 unless otherwise indicated.

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DISEASES

COMMON MAIZE RUST (Puccinia sorghi) - MINNESOTA - District> County= prevalence/severity on corn [host stage] in 1 commercial field each if not stated, August 7-9: NW> Clay= 99%/trace [silk] on dent corn, NC> Cass= 99%/trace [tassel] on dent corn, and C> Wadena= 100%/trace [12 leaf to medium silk] on sweet corn and dent corn hybrids and selected inbreds in monitoring plot. (E.L. Stromberg).

ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves of cultivar, if stated, in number of commercial fields (f) or monitoring plots (m) week of August 6: ESE> Fayette= trace/trace [blister] on W64A in 1m, Marion= 100%/trace to 10% [blister] in 1f, SW> Clinton= 100%/trace to 5% [blister] in 1f, Monroe= trace/trace [blister] in 1f, Randolph= trace/trace [blister] in 1f, St. Clair= trace/trace [blister] on A632Ht X A619Ht in 1m, Jackson= trace/trace [dough] on W64A in 1m, SE> Pope= trace/trace [dough] on N28Ht X Mo17Ht in 1m, Saline= 100%/trace to 12% [dough] in 1f, Gallatin= 100%/trace to 12% [blister] in 1f, White= trace/trace [dough] in 1f and Wabash= 100%/trace to 3% [blister] in 1f. (E.G. Jordan). MICHIGAN - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 13: SW> Berrien= trace/trace [12 leaf] and Van Buren= trace/trace [8 leaf]; week of July 20: SE> Wayne= trace/trace [blister] and Genesee= trace/trace [soft dough]; and week of August 10: SW> Kent= trace/trace [blister]. (B.P. Singh).

COMMON SMUT (Ustilago maydis) - ILLINOIS - District> County= prevalence on corn [host stage] leaves of cultivar if stated, in number of commercial fields (f) or monitoring plots (m) week of August 6: ESE> Fayette= 2% [blister] on N28Ht in 1m, Marion= 3% [blister] in 1f, SW> Clinton= 4% [blister] in 1f, Monroe= 2% [blister] in 1f, Randolph= 1% [blister] in 1f, St. Clair= 4% [blister] on N28Ht X Mo17Ht in 1m, Jackson= trace [dough] on B73 in 1m, SE> Pope= trace [dough] on N28Ht X Mo17Ht in 1m, Saline= 3% [dough] in 1f, Gallatin= 2% [blister] in 1f, White= 1% [dough] in 1f, and Wabash= 3% [blister] in 1f. (E.G. Jordan). WISCONSIN - Light in most fields. District> County= prevalence on sweet corn, mainly on leaves and stems, week ending August 10: SC> Rock= 11-24% in some fields. (O.L. Lovett). INDIANA - Severe enough to cause loss in infected fields. District> County= prevalence on corn [host stage] in 1 field each, August 5-11: WC> Tippecanoe= trace [blister], NW> White= not seen [soft dough], Jasper= trace [blister], Porter= trace [soft dough], La Porte= 1% [soft dough], NC> St. Joseph= trace [blister], Marshall= trace [blister], Fulton= not seen [blister], Cass= 1% [blister], Carroll= trace [blister], C> Howard= trace [blister], Clinton= trace [soft dough], and Boone= 1% [soft dough]. (R.A. Schall).

MICHIGAN - District> County= common smut prevalence on corn [host stage] in 1 commercial field each, week of July 20: SW> Kalamazoo= trace [tassel], SC> Calhoun= trace [silk], SE> Wayne= trace [blister], and St. Clair= trace [blister]; week of August 10: SE> Genesee= trace [soft dough], SC> Shiawassee= trace [soft dough], Ionia= trace [soft dough], SW> Kent= trace [blister], WC> Muskegon= trace [soft dough], Newaygo= trace [soft dough], and C> Montcalm= trace [blister]. (B.P. Singh). WEST VIRGINIA - District> County= prevalence on corn week of August 9: E> Jefferson= light in 1 field and Berkeley= light in 3 fields. (C. Stuart).

SOUTHERN LEAF BLIGHT (Helminthosporium maydis) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves of cultivar, if stated, in number of commercial fields (f) or monitoring plots (m) week of August 6: ESE> Fayette= trace/trace [blister] on Mo17Ht X B73 in 1m, Marion= trace/trace [blister] in 1f, SW> Clinton= trace/trace [blister] in 1f, Monroe= trace/trace [blister] in 1f, Randolph= trace/trace [blister] in 1f, St. Clair= trace/trace [blister] on Mo17Ht X B73 in 1m, Jackson= trace/trace [dough] on N28Ht X Mo17Ht in 1m, SE> Pope= 100%/3% [blister] on B73Ht in 1m, Saline= 100%/1% [dough] in 1f, Gallatin= 100%/2-5% [blister] in 1f, White= 100%/4% [dough] in 1f, and Wabash= 100%/2% [blister] in 1f. (E.G. Jordan).

NORTHERN LEAF BLIGHT (Helminthosporium turcicum) - WEST VIRGINIA - District> County= prevalence on corn: E> Jefferson= light to heavy in 8 fields August 7-8 and NW> Tyler= light in 2 fields August 6. (R.L. Williams).

HELMINTHOSPORIUM LEAF SPOT (Helminthosporium carbonum) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of August 6: ESE> Marion= 20%/trace [blister], SW> Clinton= 30%/trace to 1% [blister], Monroe= 25%/trace to 1% [blister], Randolph= 20%/trace [blister], SE> Saline= trace/trace [dough], Gallatin= trace/trace [blister], White= 100%/1% [dough], and Wabash= 100%/trace to 1% [blister]. (E.G. Jordan).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves of cultivar, if stated, in number of commercial fields (f) or monitoring plots (m) week of August 6: ESE> Fayette= 100%/2% [blister] on Pr in 1m, Marion= trace/trace [blister] in 1f, SW> St. Clair= 100%/2% [blister] on A632Ht X A619Ht in 1m, Randolph= trace/trace [blister] in 1f, SE> Saline= trace/trace [dough] in 1f, Gallatin= trace/trace [blister] in 1f, White= trace/trace [dough] in 1f, and Wabash= 100%/3-4% [blister] in 1f. (E.G. Jordan). MICHIGAN - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 20: SW> Kalamazoo= trace/trace [tassel] on lower leaves, SC> Calhoun= 15-20%/trace to 1% [silk], and Jackson= trace/trace [12 leaf]; week of August 10: SW> Kent= 5-10%/trace [blister]. (B.P. Singh).

CORN EYESPOT (Kabatiella zeae) - MINNESOTA - District> County= prevalence/severity on corn [host stage] August 9: NC> Cass= 90%/trace [tassel] on dent corn in commercial field and C> Wadena= 100%/trace to 3% [12 leaf to medium silk] on sweet corn in monitoring plot. (E.L. Stromberg). MICHIGAN - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, week of July 13: SC> Branch= 50-60%/5-10% [8 leaf] and SW> St. Joseph= trace/trace [4 leaf]; week of July 20: SW> Kalamazoo= 25-30%/15-20% [tassel], SC> Calhoun= trace to 1%/trace to 1% [silk], Jackson= 60-70%/30-35% [12 leaf], and SE> Wayne= trace/trace [blister]; week of August 10: SW> Kent= 5-10%/trace to 1% [blister]. (B.P. Singh).

STEWART'S WILT (Erwinia stewartii) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves of cultivar, if stated, in number of commercial fields (f) or monitoring plots (m) week of August 6: ESE> Fayette= 100%/5% [blister] on B73Ht in 1m, Marion= 100%/trace to 2% [blister] in 1f, SW> Clinton= 100%/trace to 3% [blister] in 1f, Monroe= 100%/5% [blister] in 1f, Randolph= 100%/2-5% [blister] in 1f, St. Clair= 100%/2% [blister] on B73 in 1m, Jackson= 100%/4% [blister] on B73 in 1m, SE> Pope= 100%/4% [dough] on A632Ht X A619Ht in 1m, Saline= 100%/3-5% [dough] in 1f, Gallatin= 100%/1-3% [blister] in 1f, White= 100%/3-6% [dough] in 1f, and Wabash= 100%/trace to 1% [blister] in 1f. (E.G. Jordan).

MAIZE DWARF MOSAIC VIRUS - WISCONSIN - Developing symptoms expected on sweet corn planted after June 15, especially in southeastern and south-central counties. District> County= prevalence/severity in 1 field each, week ending August 10: WC> St. Croix, EC> Winnebago, Outagamie, Brown, SE> Kenosha, and SC> Dodge= none found, may indicate lack of late-planted corn; SE> Racine= 38%/9%, 9%/3%, 30%/8%, 10%/4%, 6%/3%, Walworth= 2%/1%, 3%/1%, 0%/0%, 0%/0%, 2%/1%, SC> Rock= 0%/0%, trace/trace, 12%/4%, 0%/0%, 10%/4%, Jefferson= 15%/4%, Columbia= present, and C> Green Lake= 3%/1%, trace/trace. (O.L. Lovett).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - GEORGIA - Area> larvae or pupae (average if given) per 50 corn [host stage] plants in number of sites (s) week of August 6: SW> 5th instars 6 [dent] in 1s (W.F. Wood), SE> 2nd to 5th instars 4-5 (3.4) [dent to mature] in 3s (W.F. Wood, W.M. Fortson), C> 5th instars 1 [mature] in 1s (W.J. Roberts), and N> 3rd instars to pupae 14-29 (21.5) [dent] in 2s (E.W. Elder); week of August 13: SW> 1st to 5th instars 2-13 (6.5) [dent to mature] in 2s (W.T. Glover, W.F. Wood), SE> 5th instars 9 [dent] in 1s (W.F. Wood), and N> pupae 34 [dent] in 1s (E.W. Elder).

SOUTH CAROLINA - District> County= European corn borer larvae and/or pupae on corn August 1: E> Marlboro= moderate, about 4 per plant in 8.1 ha near Blenheim, damage moderate. (T. Shalosky). WEST VIRGINIA - District> County= status on corn July 28: E> Jefferson= stalk damage ranged 17-49% in fields surveyed. (C. Stuart). NEW YORK - Adult activity decreased in blacklight traps on Long Island week ending August 10. (M. Semel). District> County= status: W> Orleans and Monroe= adults caught at pheromone trap stations (Herendeen, Nally), and egg masses 2-7 per 60 plants (Nally).

WISCONSIN - European corn borer adults heavy in blacklight trap catches at several sites past week. Adults by the dozen seen in dense foxtail and wild proso millet patches in corn fields in southern and central counties. District> County= status: As far north as WC> St. Croix, C> Waushara at Plainfield, and EC> Winnebago at Oshkosh= egg laying noted, controls applied in some southern sweet corn; empty pupal cases, pupae, and 5th instar larvae in about equal numbers in advanced corn at Plainfield, larvae as small as 3rd instar in area; WC and NW area> empty pupal cases scarce and 5th instar larvae outnumbered pupae 2 to 1 (infestation rates in latter counties averaged about 10%). No larvae will pupate after August 11-12 due to decreased day length. Parasitism of first generation larvae by Macrocentrus grandii (a braconid wasp) much heavier than normal. (O.L. Lovett).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - TEXAS - District> County= status on corn August 9: Northern High Plains> Hale= adults 55-82 per trap per week, eggs and larvae up to 6% at Edmonson, and eggs and larvae up to 15% at Cotton Center (G.B. Cronholm); Panhandle area> laying eggs August 18 (C.D. Patrick). OKLAHOMA - District> County= status on corn: Panhandle> Texas= second generation eggs heavy, most in red line stage and about 10% hatched. (D.C. Arnold).

CORN EARWORM (Heliothis zea) - TENNESSEE - Heavy in corn ears as usual. Infested ears 75-100% in some cases, all larval instars found. (J. Locke, M. Cooper). VIRGINIA - Most larvae about grown and will soon pupate. Area> larval infestations of corn ears (compared with 1978) week ending August 10: Tidewater Region> 21.1% (not given) of 750 ears in 30 fields, south of James River> 19.6% (27.2%), Middle Peninsula> 20.8% (19.1%), and Northern Neck> 20.8% (8.8%). (W.A. Allen).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status on 4-week-old fall sweet corn August 6-9: C> Alachua= infested 12-80% of 142 ha, treated twice weekly; treatment rate currently unchanged, infested 4-96% of 4.0 ha in 121 ha. (R.B. Baker). NEW YORK - District> County= status on corn: C> Cayuga= adults continued to appear in pheromone traps despite past cool weather, most significant activity in late-planted sweet corn. (H.R. Willson).

SORGHUM WEBWORM (Celama sorghiella) - ALABAMA - Area> larval counts (average) per 25 heads of sorghum [host stage] in 2 sites each, week of August 13: Gulf Coast> 3rd instars 51-57 (54) [head] (L.W. Lockhart), and Central Alabama> 2nd to 3rd instars 3-5 (4) [beginning head to head] (W.N. Stephenson).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - OKLAHOMA - District> County= adults per corn plant: Panhandle> Texas= averaged less than 1 in fields surveyed. (D.C. Arnold).

SORGHUM MIDGE (Contarinia sorghicola) - TEXAS - District> County= counts on sorghum August 6-10: Blacklands> Bell and Falls= very heavy; Hill and Johnson= heavy; Southern Low Plains> Stonewall, Northern Low Plains> Hardeman, and South Plains area= none; Edwards Plateau> Tom Green and Southern Low Plains> Runnels= heavy. (F.W. Parker et al.).

GREENBUG (Schizaphis graminum) - TEXAS - Populations light in north-central area, increased in South Plains area, and economic in Panhandle area. District> County= status on sorghum July 29 to August 2: Southern Low Plains> Knox= light, Southern High Plains> Crosby and Northern High Plains> Floyd= near economic levels, and Hale= economic in several fields and parasitism 10-15%, and Trans-Pecos> Culberson= heavy. (H.A. Turney et al.); August 8-10: Southern High Plains> Crosby and Northern High Plains> Floyd= economic in untreated fields, 10-15% mummies at South Plains, Hale= 10-20%, and Panhandle area> economic with mummies under 5%. (P.W. Treptow, III et al.). OKLAHOMA - District> County= status on sorghum: Panhandle> Texas= increased slightly on early planted sorghum, parasitism also increased and NC> Garfield, Grant, Kay, and Noble= 0-15 per plant. (D.C. Arnold).

CHINCH BUG (Blissus leucopterus leucopterus) - OKLAHOMA - District> County= counts per plant on sorghum and millet: NC> Kay and Noble= 0-15. (D.C. Arnold).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - WASHINGTON - District> County= status on corn August 13: EC> Grant= heavy infestations throughout, and Franklin= in areas north of Pasco. To date, controls not effective. (E. Kulp, W. Foeppel). UTAH - District> County= status on corn: N> Box Elder= severely infested fields. (H. Lindsay).

BANKS GRASS MITE (Oligonychus pratensis) - OKLAHOMA - District> County= status: NC> Noble, Kay, Grant, and Garfield= light on lower sorghum leaves in most fields, and Panhandle> Texas= still heavy in spots in some corn fields, did not appear to be increasing. (D.C. Arnold).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - MICHIGAN - District> County= prevalence/severity on winter wheat [host stage] leaves in 1 commercial field each, week of June 22: EC> Saginaw= trace/trace [heading], WC> Mason= 1-2%/5-10% [flowering], NE> Montmorency= trace/trace [early milk], and

Presque Isle= wheat leaf rust trace/trace [milk]; week of July 28: SE> Lenawee= 5-10%/30-40% [early dough], St. Clair= 55-60%/70-75% [milk], SC> Branch= 70-80%/40-50% [ripe], St. Joseph= 45-55%/15-25% [late dough], SW> Berrien= 80-90%/60-70% [ripe], and Van Buren= 65-70%/60-65% [late dough]. (B.P. Singh).

OAT CROWN RUST (Puccinia coronata var. avenae) - MICHIGAN - District> County= prevalence/severity on oats [milk] week of July 27: SE> Lapeer= 80-85%/60-65% in 1 commercial field. (B.P. Singh).

OAT LOOSE SMUT (Ustilago avenae) - MINNESOTA - District> County= prevalence on oats [early dough] in 1 commercial field each, August 8-9: NW> Clearwater= 1% and Marshall= trace. (E.L. Stromberg).

LOOSE SMUT (Ustilago nuda) - MINNESOTA - District> County= prevalence on wheat [host stage] in number of commercial fields (f) August 7-9: NW> Clay= trace [early dough] in 1f, Clearwater= trace [early dough] in 1f, Kittson= trace [early dough and late milk] in 2f, Marshall= trace [late milk] in 2f, Norman= trace [early dough and middough] in 2f, Red Lake= trace [late milk] in 1f, and NC> Beltrami= trace [late milk] in 1f. (E.L. Stromberg).

MICHIGAN - District> County= loose smut prevalence on winter wheat [host stage] in 1 commercial field each, week of June 22: EC> Huron= trace [heading], Bay= trace [heading], NE> Ogemaw= trace [kernel], Montmorency= trace [milk]; week of June 29: C> Clare= 1-5% [heading], NW> Antrim= trace [flowering to heading], Leelanau= trace [flowering to heading], WC> Mason= trace [flowering to heading], SE> Lenawee= trace [early dough], and St. Clair= trace [late dough]. (B.P. Singh).

TAKE-ALL (Gaeumannomyces graminis var. tritici) - MICHIGAN - District> County= prevalence on winter wheat [host stage] in 1 commercial field each, week of June 22: WC> Muskegon= trace [flowering], Mason= 1% [flowering], NW> Leelanau= trace [flowering], NE> Presque Isle= trace [milk], Montmorency= trace [milk], and NW> Antrim= 30-35% [flowering]. (B.P. Singh).

WHEAT POWDERY MILDEW (Erysiphe graminis f.sp. tritici) - MICHIGAN - District> County= prevalence/severity on winter wheat [host stage] leaves in 1 commercial field each, week of June 22: WC> Muskegon= 15-20%/10-20% [flowering], Newaygo= trace/trace [boot], WC> Mason= 60-70%/45-55% [flowering] on cultivar Yorkstar, C> Montcalm= trace to 1%/trace [flag leaf visible], EC> Saginaw= 80-90%/70-80% [heading], Tuscola= 45-55%/80-90% [heading] on lower leaves, Sanilac= 25-30%/15-20% [boot], Huron= 5-10%/15-20% [milk], Bay= 25-30%/15-20% [heading] on lower leaves, C> Clare= 1-5%/5-10% [heading], NW> Missaukee= trace/trace [heading], Antrim= trace/trace [flowering], Wexford= trace/trace [heading], Leelanau= 90-95%/70-80% [flowering], NE> Ogemaw= trace/trace [kernel], Iosco= 15-20%/5-10% [kernels fully developed] on lower leaves, Montmorency= 25-30%/15-20% [early milk] on lower leaves, and Presque Isle= 95-100%/80-85% [early milk]. (B.P. Singh).

SPECKLED LEAF BLOTCH (Septoria tritici) - MINNESOTA - District> County= prevalence/severity on wheat [early dough] flag leaves in number of commercial fields (f), August 7-9: NW> Clay= 100%/trace to 20% in 1f, Clearwater= 100%/trace to 5% in 1f, Norman= 100%/trace to 5% [middough] and 90%/trace to 5% [early dough] in 2f, and NC> Beltrami= 100%/trace to 5% [late milk] in 1f. (E.L. Stromberg).

SEPTORIA COMPLEX (Septoria spp.) - MICHIGAN - District> County= prevalence/severity of leaf and glume blotch on winter wheat [host stage] leaves in 1

commercial field each, week of June 22: WC> Muskegon= 95-100%/60-70% [flowering] on lower leaves, Mason= 60-70%/45-50% [flowering], EC> Saginaw= trace/trace [heading] on lower leaves, Huron= trace/trace [milk], and SE> Sanilac= trace/trace [boot]. (B.P. Singh).

SCAB (Fusarium spp.) - MINNESOTA - District> County= prevalence/severity on wheat [early dough] heads in number of commercial fields (f), August 7-9: NW> Clay= trace/trace to 10% in 1f, Clearwater= 30%/trace to 70% in 1f, Norman= 90%/trace to 75% [middough] and 80%/trace to 50% in 2f, Polk= 10%/trace to 10% in 1f, and NC> Beltrami= trace/trace to 10% [late milk] in 1f. (E.L. Stromberg). MICHIGAN - District> County= prevalence on winter wheat [late dough] week of July 20: SE> St. Clair= trace in 1 commercial field. (B.P. Singh).

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - MICHIGAN - District> County= prevalence on winter wheat [host stage] in 1 commercial field each, week of May 31: C> Osceola= 1% [2 nodes]; week of June 22: NW> Missaukee= 1% [heading], Wexford= 15% [heading], and NE> Iosco= 1% [kernel]. (B.P. Singh).

ERGOT (Claviceps purpurea) - MINNESOTA - District> County= prevalence on wheat [host stage] August 7: NW> Norman= trace [middough] and trace [early dough] in 2 commercial fields. (E.L. Stromberg). MICHIGAN - District> County= prevalence on winter wheat [late dough] week of July 20: SE> St. Clair= 5-10% in 1 comcial field. (B.P. Singh).

SMOOTH-SPORED BUNT (Tilletia foetida) - MICHIGAN - District> County= prevalence on winter wheat [late dough] week of July 20: SE> St. Clair= trace to 1% in 1 commercial field. (B.P. Singh).

INSECTS

ARMYWORM (Pseudaletia unipuncta) - WISCONSIN - Problems still reported from several northern counties. District> County= status on oats week ending August 10: EC> Door= infestations very heavy, 809.4-1,214 ha treated. (O.L. Lovett).

TURF, PASTURES, RANGELAND

INSECTS

SOUTHERN CHINCH BUG (Blissus insularis) - FLORIDA - Populations of organophosphate resistant bugs peaked. District> County= status on St. Augustinegrass August 7: S> parts of northern Broward= organophosphate resistant strain damaged nearly all lawns within range, scattered damage to grass by nonresistant bugs elsewhere in this county. (J.A. Reinert).

BANKS GRASS MITE (Oligonychus pratensis) - FLORIDA - District> County= status on St. Augustinegrass August 3: S> Broward= light to moderate, infested 50% of 20 lawns in Ft. Lauderdale area, 50+% grass destroyed in 1 lawn. (J.A. Reinert).

FORAGE LEGUMES

INSECTS

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= larvae and adults on alfalfa: C> Pinal= 16-26 and 1-4 per 100 sweeps, Maricopa= 17 and 0 per 50 sweeps, and SW> Yuma= 5-35 and 0 per 10 sweeps. (R. Miller et al.).

PEA APHID (Acyrthosiphon pisum) - IDAHO - District> County= status on hay alfalfa August 8: SW> Canyon= heavy populations held back third growth in several fields in Arena Valley. (N.D. Waters).

SPOTTED ALFALFA APHID (Therioaphis maculata) - OKLAHOMA - District> County= counts per 10 sweeps of alfalfa: SC> Garvin= 0-100. (D.C. Arnold).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults on alfalfa: C> Maricopa= 50 and 35 per 50 sweeps, Pinal= 294 and 32-261 per 100 sweeps, and SW> Yuma= 30 and 70 per 100 sweeps. (R. Miller et al.). UTAH - District> County= status on seed alfalfa: C> western Millard= averaged 2.72 per sweep at Abraham, 2.36 in Delta area, 1.24 at Sugarville, and 2.14 in Sutherland area. (L. Haskell).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - INDIANA - District> County= prevalence on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe= not seen, NW> White= not seen, Jasper= 1% [pod 2 cm], Porter= trace, La Porte= not seen [pod 0.5 cm], NC> St. Joseph= not seen [pod 0.5 cm], Marshall= not seen [pod 0.5 cm], Fulton= not seen [pod 0.5 cm], Cass= not seen [flower below uppermost node], Carroll= not seen [pod 2 cm], C> Howard= not seen [pod 0.5 cm], Clinton= not seen, and Boone= not seen. (R.A. Schall). MICHIGAN - District> County= prevalence on soybeans [flower] week of August 8: SE> Genesee and SW> Muskegon= trace in 2 commercial fields. (B.P. Singh).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - INDIANA - District> County= prevalence/severity on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe= 90%/trace, NW> White= 90%/trace, Jasper= 99%/5% [pod 2 cm], Porter= 99%/2%, La Porte= not seen [pod 0.5 cm], NC> St. Joseph= trace/trace [pod 0.5 cm], Marshall= 50%/trace [pod 0.5 cm], Fulton= 99%/1% [pod 0.5 cm], Cass= 5%/trace [flower below uppermost node], Carroll= 99%/1% [pod 2 cm], C> Howard= 99%/1% [pod 0.5 cm], Clinton= 80%/trace, and Boone= 10%/trace. (R.A. Schall).

MICHIGAN - District> County= soybean downy mildew prevalence/severity on soybeans [host stage] in 1 commercial field each, week of August 8: SW> Kent= trace/trace [flower], WC> Muskegon= trace/trace [flower], and C> Montcalm= 80-85%/5-10% [pod 0.5 cm] in irrigated field. (B.P. Singh).

SOYBEAN BROWN SPOT (Septoria glycines) - INDIANA - District> County= prevalence/severity on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe= 95%/15%, NW> White= 78%/15%, Jasper= 84%/10% [pod 2 cm], Porter= 84%/5%, La Porte= 45%/3% [pod 0.5 cm], NC> St. Joseph= 72%/5% [pod 0.5 cm], Marshall= 33%/3% [pod 0.5 cm], Fulton= 9%/1% [pod 0.5 cm], Cass= 36%/5% [flower below uppermost node], Carroll= 72%/5% [pod 2 cm], C> Howard= 84%/5% [pod 0.5 cm], Clinton= 84%/5%, and Boone= 95%/20%. (R.A. Schall).

MICHIGAN - District> County= soybean brown spot prevalence/severity on soybean [host stage] lower leaves in 1 commercial field each, week of July 13: SC> Branch= 1-2%/trace to 1% [3 nodes], C> St. Joseph= trace/trace [4 nodes], SW> Berrien= trace/trace [flower], and Van Buren= trace to 1%/trace to 1% [3

nodes]; week of July 20: SW> Kalamazoo= trace/trace [6 nodes], SC> Calhoun= trace/trace [7 nodes], Jackson= trace/trace [7 nodes], and SE> Wayne= 45-50%/15-20% [8 nodes]; week of August 10: SE> Genesee= 25-30%/5-10% [flower], SC> Ionia= 5-10%/trace to 1% [flower], SW> Kent= trace/trace [flower], WC> Muskegon= 1-5%/1-2% [flower], and C> Montcalm= 15-20%/5-10% [pod 0.5 cm]. (B.P. Singh).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - INDIANA - District> County= prevalence/severity on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe= 99%/5%, NW> White= not seen, Jasper= not seen [pod 2 cm], Porter= trace/trace, La Porte= 99%/1% [pod 0.5 cm], NC> St. Joseph= 1%/ 1% [pod 0.5 cm], Marshall= 10%/trace [pod 0.5 cm], Fulton= 1%/trace [pod 0.5 cm], Cass= not seen [flower below uppermost node], Carroll= not seen [pod 2 cm], C> Howard= not seen [pod 0.5 cm], Clinton= 95%/1%, and Boone= 50%/trace. (R.A. Schall).

MICHIGAN - District> County= soybean bacterial blight prevalence/severity on soybean [host stage] leaves in 1 commercial field each, week of July 13: SC> St. Joseph= 20-25%/1-5% [4 nodes], SW> Berrien= 15-20%/5-10% [flower]; week of July 20: SW> Kalamazoo= trace/trace [6 nodes], SC> Calhoun= trace/trace [7 nodes], Jackson= 1-2%/trace to 1% [7 nodes], SE> Wayne= 5-10%/1-2% [flower], Macomb= 1-5%/trace to 1% [8 nodes]; week of August 10: SE> Genesee= 5-10%/1-2% [flower], SC> Ionia= 1-2%/trace to 1% [flower], SW> Kent= trace to 1%/trace to 1% [flower], WC> Muskegon= trace/trace [flower], and C> Montcalm= 5-10%/1-5% [pod 0.5 cm]. (B.P. Singh).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - INDIANA - District> County= prevalence/severity on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe, NW> White, Jasper [pod 2 cm], Porter, La Porte [pod 0.5 cm], NC> St. Joseph [pod 0.5 cm], Marshall [pod 0.5 cm], Fulton [pod 0.5 cm], Cass [flower below uppermost node], Carroll [pod 2 cm], C> Howard [pod 0.5 cm], Clinton, and Boone= not seen. (R.A. Schall).

SOYBEAN MOSAIC VIRUS - INDIANA - District> County= prevalence on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe= not seen, NW> White= not seen, Jasper= 1% [pod 2 cm], Porter= not seen, La Porte= trace [pod 0.5 cm], NC> St. Joseph= not seen [pod 0.5 cm], Marshall= not seen [pod 0.5 cm], Fulton= not seen [pod 0.5 cm], Cass= not seen [flower below uppermost node], Carroll= not seen [pod 2 cm], C> Howard= not seen [pod 0.5 cm], Clinton= trace, and Boone= trace. (R.A. Schall).

MICHIGAN - District> County= soybean mosaic virus prevalence on soybean [host stage] leaves in 1 commercial field each, week of July 13: SC> St. Joseph= trace [4 nodes], Berrien= trace [flower], and Van Buren= trace [3 nodes]; week of August 8: SE> Genesee= trace [flower], SC> Shiawassee= trace [flower], SW> Kent= trace [flower], WC> Muskegon= trace [flower], and C> Montcalm= trace [pod 0.5 cm]. (B.P. Singh).

BEAN YELLOW MOSAIC VIRUS - INDIANA - District> County= prevalence on soybeans [seed beginning to develop if not stated] in 1 field each, August 5-11: WC> Tippecanoe= not seen, NW> White= not seen, Jasper= not seen [pod 2 cm], Porter= trace, La Porte= not seen [pod 0.5 cm], NC> St. Joseph= not seen [pod 0.5 cm], Marshall= not seen [pod 0.5 cm], Fulton= not seen [pod 0.5 cm], Cass= not seen [flower below uppermost node], Carroll= not seen [pod 2 cm], C> Howard= not seen [pod 0.5 cm], Clinton= not seen, and Boone= trace. (R.A. Schall).

INSECTS

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= status on soybeans: SC> Garvin= 0-3 per 0.3 row m and NE> Wagoner and EC> Muskogee= still absent or very light. (D.C. Arnold). GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] in number of sites (s) week of August 6: SW> 2nd to 4th instars 2-8 (3.9) [open flower any node to pod 5 mm] in 7s (G. Galbreath et al.), SE> 1st to 4th instars 2-103 (34) [open flower at 1 of 2 uppermost nodes to pod 3 mm] in 6s (W.F. Wood, W.M. Fortson), C> 1st to 5th instars 1-24 (14) [pod 3 mm to pod 2 cm] in 3s (W.J. Roberts), and N> 2nd instars 1 [open flower any node] in 1s (E.W. Elder); week of August 13: SW> 2nd to 3rd instars 2-13 (6) [open flower at 1 of 2 uppermost nodes to pod 2 cm] in 8s (G. Galbreath et al.), SE> 2nd to 5th instars 1-15 (8.2) [open flower at 1 of 2 uppermost nodes to pod 2 cm] in 5s (K.L. Davenport et al.), C> 1st to 5th instars 20 [pod 5 mm] in 1s (W.J. Roberts), and N> 2nd instar 1 [open flower at 1 of 2 uppermost nodes] in 1s (E.W. Elder).

VIRGINIA - Potential for light to moderate corn earworm infestation on Tidewater soybean crop, based on increased soybean acreage of about 10% (from 182,109 to 202,344 ha) and on past experience. Damage expected to be heavy in some late-planted fields and very light in others. Corn earworm survival should be lighter if wet weather persists. See corn earworm under CORN, SORGHUM, SUGARCANE p. 603.

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= counts per 0.9 row m of soybeans: EC> Muskogee and NE> Wagoner= 3-6. (D.C. Arnold). ALABAMA - Area> larvae (average) and leaf loss per 9.1 row m of soybeans [host stage] in number of sites (s) week of August 13: Gulf Coast> 2nd to 3rd instars 1-5 (2.3) [pod] and 5-10% in 3s (L.W. Lockhart), Coastal Plains> 1st to 4th instars 1-34 (12.3) [bloom to pod] and trace in 4s (T. Lemons), central Alabama> 2nd to 5th instars 8-12 (10) [bloom] and 3-4% in 5s (W.N. Stephenson), Black Belt> 1st to 5th instars 3-21 (8.8) [bloom] and 1-5% in 5s (T. Pigott), and Tennessee River> 2nd to 4th instars 1-3 (2) [bloom to pod] and trace in 3s (J. Gregory).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status per 0.3 row m of soybeans August 7-8: C> Alachua and Levy= all instars averaged 4 to 6-7, damage economic to 404.7 ha. Currently: treatment needed in 809.4 of 1,618 ha due mainly to this species (up to 30+) and secondarily to stink bugs, SOYBEAN LOOPER (Pseudoplusia includens) and CORN EARWORM (Heliothis zea) (R.B. Baker), NW> Jackson= heavy populations expected in many fields in late August (J.E. Arnold), and Gadsden= larvae averaged about 1, below threshold of 4, in most plantings (D.C. Herzog).

PEANUTS

DISEASES

PEANUT LEAF SPOT (Mycosphaerella berkeleyii) - FLORIDA - District> County= status on peanuts: NW> Jackson= outbreak in many fields, 10-day treatment schedule needed in heavily infected fields or every 7 days in young fields. (J.E. Arnold).

PEANUT RUST (Puccinia arachidis) - FLORIDA - District> County= status on peanuts: NW> northeastern Jackson= found in 2 fields, can be serious. (H.M. Linker).

INSECTS

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status on peanuts August 7-8: C> Alachua and Levy= 40.5 ha needed treatment; currently: 243-283 of 809.4 ha needed treatment there. (R.B. Baker).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status on peanuts August 8: C> Levy= damaged 40.5 ha at Chiefland, treatment required. (R.B. Baker).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - TEXAS - District> County= status on peanuts August 6: Cross Timbers> Comanche= infested up to 48%. (D.W. Moore).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - District> County= punctured squares on cotton July 27 to August 3: Lower Valley> Cameron= 7-64 per 100 plants, Hidalgo= 2-20 per 100 plants, Upper Coast> Matagorda= 2-52%, Wharton= 0-68%, Fort Bend= 0-4%, Blacklands> Ellis and Navarro= 4-48 per 100 squares, Southern Low Plains> Fisher and Jones= 0-5%, Knox at Knox City= up to 1%, Runnels at Wingate= 0-6%, Edwards Plateau> Tom Green at Veribest= 1-19% and north-central area> 15-20%. (J. Cocke et al.).

Texas - Boll weevil damage appeared in Blacklands area; numbers remained light west of there. District> County= status on cotton August 6-10: Upper Coast> Wharton, Matagorda, and Fort Bend= diapausing adults 3-13% and punctured squares 0-40%, Blacklands> Williamson and Milam= damaged squares 0-2%, Bell and Falls= punctured squares up to 80%, Hill and Johnson= punctured squares 15-55%, Collin and Hunt= punctured squares 2-25%, Rolling Plains area and Northern High Plains> Floyd at South Plains= adults light in traps, Southern Low Plains> Knox= damaged squares 5%, Fisher= punctured squares 0-2%, Runnels= punctured square mean 2-3% at Wingate, Edwards Plateau> Tom Green= punctured square mean 6-7% at Veribest, Southern High Plains> Howard and Glasscock= adults light in traps. (C.R. Burgess et al.).

OKLAHOMA - District> County= boll weevil counts in number of pheromone traps: SW> Harmon= adults 21 in 20, Jackson= 1 in 85, and Tillman, Greer, and Kiowa= 0 in 61. (D.C. Arnold). LOUISIANA - Becoming main insect problem on cotton in State, increased in severity and spread to more fields daily, emergence heavy from squares on ground in infested fields, excessive rainfall past month ideal for weevil reproduction. Fields with 15-20% damaged squares increased to almost 100% damaged squares when new generation of adults emerged, unless found early and treated every 3-4 days. District> Parish= status on cotton: WC> Natchitoches and NE> Tensas= most severe but needed treatment in other parishes. (J.S. Tynes).

ARKANSAS - Boll weevil infestations relatively light and spotty. District> County= status on cotton week ending August 10: SE> Chicot and Ashley= only 1 or 2 fields treated in each, but feeding punctures 90-100% in 2 small fields totaling about 4 ha near Parkdale area in latter county. (M. Wall). TENNESSEE - District> County= status on cotton: West Tennessee> Fayette, Hardeman, and McNairy= square damage 0-7% in all fields surveyed. (J. Locke).

BOLLWORMS (Heliothis spp.) - ARIZONA - District> County= BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) eggs and larvae on cotton: C> Maricopa= 6-12 and 1-4 per 100 terminals, Pinal= 6 and 1 per 100 sweeps, and SW> Yuma= 14-530 and 2-15 per 100 terminals, 8% white eggs at Somerton and Tacna. (J.A. Bedford).

TEXAS - H. zea and H. virescens generally light, egg laying increased in north-central, San Angelo, and Trans-Pecos areas. Area> counts per 0.4 ha on cotton August 3: Northern High Plains> Floyd at South Plains= 500 in few fields. (J. Cocke et al.). Gradually increased across State on cotton August 7-19. Egg laying underway in most areas with wide variation between fields. District> County= status: Upper Coast> Wharton, Fort Bend, and Matagorda= tobacco budworm 58-75%, and Northern High Plains> Hale= bollworm 5-111 per trap per night with few eggs. (C.R. Burgess et al.).

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
July 26 to August 3:				
Lower Valley> Cameron	0-164	0-50	0-32	plants
Lower Valley> Hidalgo	3-24	0-18	no data	plants
Upper Coast> Matagorda	2-102%	1-40%	0-8%	
Upper Coast> Wharton	0-70%	0-45%	0-48%	
Upper Coast> Fort Bend	0-27%	0-16%	0-12%	
Blacklands> Bell at Bartlett	150%	no data	no data	
Blacklands> Williamson & Milam	1-94	no data	3-35%	terminals
Blacklands> Ellis & Navarro	2-16	0-4	no data	plants
Northern Low Plains> Wichita	0-15	no data	no data	terminals
Southern Low Plains> Knox	no data	no data	up to 1%	
Southern Low Plains> Fisher & Jones	1-5	0-4	0-5%	terminals
Southern Low Plains> Runnels at Wingate	0-19%	1-10%	15%	
Southern High Plains> Martin	0-2	0-1	0-5	terminals
Southern High Plains> Midland	0-4	0-2	0-4	terminals
Southern High Plains> Howard	0-5	0-1	0-5	terminals
Southern High Plains> Glasscock	2-52	0-5	0-9	terminals
Southern High Plains> Martin	0-6	1-6	0-18	terminals
Southern High Plains> Howard	0-3	0-1	1-8	terminals
Southern High Plains> Glasscock	0-4	0-35	0-50	terminals
Edwards Plateau> Reagan	0-20	0-2	0-5	terminals
Edwards Plateau> Upton	0-20	0-1	0-5	terminals
Edwards Plateau> Reagan	0-26	0-10	4-36	terminals
Edwards Plateau> Upton	0-7	0-1	0	terminals
Trans-Pecos> El Paso	under 10	1-3	no data	terminals

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Trans-Pecos> El Paso at Clint	no data	10-12	no data	terminals
Trans-Pecos> El Paso & Hudspeth	1-10	1-3	0-2	terminals
Trans-Pecos> Culberson	1-10	0-7	0-2	terminals
Trans-Pecos> Reeves	1-9	0-5	0	terminals
Trans-Pecos> Pecos	15-40	0-7	2-4	terminals
August 7-19:				
Upper Coast> Wharton, Fort Bend, & Matagorda	0-72	0-33%	0-20%	no data
Blacklands> Williamson & Milam	6-41	2-18%	1-15%	terminals
Blacklands> Bell & Falls	30-75	no data	no data	terminals
Blacklands> Hill & Johnson	30-40	no data	no data	terminals
Blacklands> Collin & Hunt at Wingate	up to 48	0-8	no data	terminals
Southern Low Plains> Jones	0-16	0-4	0-6%	terminals
Southern Low Plains> Fisher	0-6	0-3	0-4	terminals
Southern High Plains> Martin	0-1	1-7	1-22	terminals
Southern High Plains> Howard	0-11	0-3	1-10	terminals
Southern High Plains> Glasscock	1-30	0-5	5-16	terminals
Southern High Plains> Midland	4-30	0-10	0-15	terminals
Edwards Plateau> Tom Green at Veribest	10-194	0-16	0-9%	terminals
Edwards Plateau> Reagan	2-15	3-17	5-30	terminals
Edwards Plateau> Upton	1-20	0-1	0-2	terminals
Trans-Pecos> El Paso & Hudspeth	1-15	1-4	0-5	terminals
Trans-Pecos> Culberson	4-42	0-3	0-5	terminals
Trans-Pecos> Reeves	7-10	6-15	5-15	terminals
Trans-Pecos> Pecos	8-30	2-6	5-20	terminals

OKLAHOMA - District> County= bollworm larval status on cotton: C> Grady= first Heliothis virescens collected July 20, H. zea 60% and H. virescens 40% in treated fields, SW> Harmon, Jackson, and Tillman= 1-26 per 100 terminals with eggs 2-25 per 100 terminals in last 2 counties, and SC> Bryan= averaged 4%, 100% in 3 fields. (D.C. Arnold).

ARKANSAS - H. zea and H. virescens adults peaked in blacklight traps August 3 in southeastern area with up to 63 adults taken in 1 trap in Desha County. District> County= H. zea and H. virescens adults in light traps: SE> Jefferson= 321 and 7 in 11 traps August 2-8 and EC> Saint Francis= 111 and 1 in 3 traps July 28 to August 3. (M.A. Mayse). Counts have since decreased. Eggs and larvae continued below normal on cotton in southeastern area week ending August 10. Low percentage of fields treated for Heliothis spp. (M. Wall).

District> County	Average eggs and larvae	Number of fields treated	Location
SE> Ashley	2 & 1 per 0.9 row m	26	near southern border
SE> Chicot	-	12	south of Lake Village
SE> Desha & Drew	-	4	near McGehee
SE> Lincoln	8 & 10 per 17 row m	25	near Gould
SE> Jefferson	1.5 & 18 per 8.5 row m	6	near Wright

TENNESSEE- Overall Heliothis zea and H. virescens infestations very spotty and not widespread. District> County= status on cotton: Delta> Tipton, Lauderdale, West Tennessee> Crockett, Fayette, Hardeman, and Central Basin> Lincoln= square damage 3-5%. (R. Patrick, J. Locke).

TARNISHED PLANT BUG (Lygus lineolaris) - ARKANSAS - District> County= status of mainly this species and CLOUDED PLANT BUG (Neurocolpus nubilus) per 0.3 row m on cotton week ending August 10: SE> Lincoln and Jefferson= generally decreased and Ashley= recent hatch of tarnished plant bug nymphs averaged 5 with up to 15+ in some fields around Wilmot area. (M. Wall).

POTATOES, TOMATOES, PEPPERS

DISEASES

POTATO AND TOMATO LATE BLIGHT (Phytophthora infestans) - WISCONSIN - First reports. Area> status on potatoes week ending August 10: Central Sands> reported in 2 fields. (O.L. Lovett).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - MAINE - County= status on potatoes week of August 9: Southern Aroostook= up to last instars heavily infested many fields, up to 100% of stems infested, foliar treatment may be ineffective. (A. Gall).

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - WISCONSIN - First in many years. District> County= status week ending August 10: NE> Langlade= infested potatoes in Antigo area. (O.L. Lovett).

GREEN PEACH APHID (Myzus persicae) - IDAHO - District> County= counts per 20 potato leaves and per trap pan August 10: SW> Canyon= 1 and 1 and 3 and 0 at Wilder, 0 and 0 at Huston; and Owyhee= 0 and 0 at Homedale. (D.V. Deusen).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - NEW YORK - Egg laying and larval activity increased in fields. District> County= status on cabbage August 8: W> Ontario and Yates= eggs and early larvae both averaged about 0.2 per plant in monitor sites, maximum larvae 1 per plant, late instar larvae and pupae trace. (H.R. Willson).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - WASHINGTON - District> County= adult counts for week ending August 6 and August 13, respectively: NE> Spokane= 266 at 3.3 (ranged 0-10) per trap and 311 at 3.8 (ranged 0-13) per trap at Green Bluff. (E. Kupferman).

PECAN WEEVIL (Curculio caryae) - OKLAHOMA - District> County= adult status on pecans: NC> Noble= emergence light in 1 orchard, indicated by limb jarring and NE> Rogers= emergence heavy. (D.C. Arnold).

OTHER TROP. & SUBTROP. FRUITS

INSECTS

PAPAYA FRUIT FLY (Toxotrypana curvicauda) - FLORIDA - Production nearly ruined. District> County= status on papaya August 9: S> Dade= infested almost all commercial fruits before harvest in Homestead area, no treatment available. (V. Waddill).

FOREST AND SHADE TREES

INSECTS

A WALSHIID MOTH (Periploca nigra) - CALIFORNIA - Find on rangeland unusual. District> County= status: San Joaquin Valley> San Joaquin= adults on cones of juniper at 426.7-m elevation in Hospital Canyon near Tracy. (C.S. Papp).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - TEXAS - District> County= counts per head of cattle August 10: Lower Valley> Willacy and Northern Hidalgo= 1,000 in several herds and Trans-Pecos area> 100-600. (J. Ocke). OKLAHOMA - District> County= status on cattle: NC> Major= 150-300 per head, and EC> Pittsburg, SC> Atoka, Bryan, Johnston, and Marshall= light to moderate. (D.C. Arnold). FLORIDA - District> County= average per head in small beef herd August 5 and August 10: C> Alachua= 364 and 350, respectively, at Newberry (D. Boyd), frequent rains kept populations from increasing (F.W. Mead).

MOSQUITOES - ARKANSAS - Adults collected in New Jersey-type light traps July 17-19 and July 25-30, respectively, (M.V. Meisch, D. Bassi):

District> County	City	Number of Psorophora	Number of Aedes	Number of Culex	Number of Anopheles	Number of Traps
SE> Ashley	Hamburg	4,279	10	280	1611	5
EC> Saint Francis	Forrest City	1,058	10	31	113	5

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

CHALKBROOD (Ascosphaera apis) - IDAHO - Heaviest incidence in State to date. District> County= incidence in Megachile rotundata (alfalfa leafcutting bee) to August 8: SW> Payette= 64.3% with 4% living bee larvae in domicile near Fruitland. (N.D. Waters).

INSECTS

AN APHIDIID WASP (Lysiphlebus testaceipes) - OKLAHOMA - District> County= parasitism of Schizaphis graminum (greenbug): Panhandle> Texas= 2-3% on early planted sorghum. (D.C. Arnold).

FEDERAL AND STATE PROGRAMS

DISEASES

OAT STEM RUST (Puccinia graminis f.sp. avenae) - MINNESOTA - District> County= prevalence on oats [host stage] in 1 commercial field each, August 7: NW> Clay= 100%/trace to 10% [late milk] and Red Lake= trace/2% [medium milk]. (E.L. Stromberg).

INSECTS

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - New finds. District> County= status: S> Brevard= found on 17 residential properties and in 1 very small 1.6 to 2.0-ha grove in city of Merritt Island week of July 31 (F.W. Mead, J. O'Neal), infestations heavy on 2 of 17 properties. Size of above infested area about 5 sq km. Infestation farthest north and about 240 km north of original find near Fort Lauderdale and 26 km north of Melbourne find. Indian River= new infestation in Vero Beach area, July 31. Previous infestations to the north and between the Indian River and Atlantic Ocean. (F.W. Mead).

GRASSHOPPERS - CALIFORNIA - District> County= status of Melanoplus devastator: Sierra Mountains> Amador= active in Central Mountains and Foothill District in lower foothill elevations, 10-15 per 0.8 sq m on about 10,400 ha of rangeland. (J. Hogden). UTAH - District> County= status: E> Uintah= trial controls applied near Vernal with 85% kill, infested 1,619 ha north of Vernal and 324 ha plus 809.4 ha private land in Green's Draw, and San Juan= 8-10 per 0.8 sq m on 2,023 ha near Beef Basin, N> Box Elder= infestation light on 12,141 ha in Promontory Point area, and Cache= infestation serious on 1,214-2,023 ha public and private land on east side, Tooele= infested 7,284.4 ha, 586.8 ha treated, C> Sevier= mainly Camnula spp. infested 202 ha in high pasturelands in Monroe Mountains. (T.D. Crowe).

TEXAS - District> County= status July 26 to August 3: Northern Low Plains> Childress, Cottle, and Motley= damaged some cotton field margins, Cross Timbers> Young= damaged some cotton field margins and some sorghum and peaches, Southern High Plains> Martin and Howard= light on cotton, Crosby and Northern High Plains> Floyd= problem in some sorghum fields, Northern Low Plains> Hall and Southern Low Plains> Stonewall= heavy in pastures. (E.P. Boring, III, et al.). OKLAHOMA - District> County= status: EC> Pittsburg= still heavy in isolated areas, SC> Coal= still heavy in crops, shrubs, lawns, and pastures, and Bryan= still heavy in peanuts, pastures, and gardens. (D.C. Arnold).

GYPSY MOTH (Lymantria dispar) - SOUTH CAROLINA - First trap record of adult for county. District> County= trap data: E> Georgetown= male trapped in Huntington Beach State Park near Murrells Inlet, July 30, 1979, by D.C. Weeks, and determined by J.L. McKee and R. Bollinger. Horry= 18 caught at 7 trapping sites in Myrtle Beach area. (J.P. Mikell, V.H. McCaskill).

MORMON CRICKET (Anabrus simplex) - UTAH - District> County= status: E> Daggett at Dutch John, San Juan near Blanding, S> Washington in Enterprise area, and C> Juab in Eureka area= heavy infestations, each on fewer than 200 ha, and Millard in Delta area= infested 121 ha. (T.D. Crowe).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton: C> Maricopa= eggs 9 and larvae 2 per 50 terminals and adults 0-100+ per pheromone trap per day, and SW> Yuma= infested bolls 5-8% and adults 1-75 per trap per day. (K. Toth et al.). TEXAS - District> County= adults in traps August 9-10: Southern High Plains> Glasscock, Trans-Pecos> El Paso, Reeves, and Pecos= light. (D.G. Foster, C.W. Neeb).

DETECTION

NEW COUNTY RECORDS

INSECTS

A DIASPIDID SCALE (Aonidomytilus solidaginis) - FLORIDA - District> County= collection data on stems of Stillingia sylvatica (queensdelight): S> Hardee= adults near Lemon Grove, July 5, 1979, by Z. Smith and J. Felty, and determined by A.B. Hamon. Scale found in wild. (Z. Smith, J. Felty).

A DIASPIDID SCALE (Diaspidiotus mccombi) - FLORIDA - District> County= collection data on leaves of Pinus sp.: S> Hardee= adults near Zolfo Springs, July 12, 1979, by J. Felty and Z. Smith, and determined by A.B. Hamon. Scale found in wild. (J. Felty, Z. Smith).

A DIASPIDID SCALE (Quadraspidiotus taxodii) - FLORIDA - District> County= collection data on Taxodium sp. (a cypress): S> St. Lucie= adults on leaves along roadside near Fort Pierce, July 19, 1979, by E.W. Campbell, and determined by A.B. Hamon. Scale found in wild. (E.W. Campbell).

GREEDY SCALE (Hemiberlesia rapax) - FLORIDA - Also new host record. District> County= collection data on stems of Cassia fasciculata (partridge pea): S> St. Lucie= at residence at Port Saint Lucie, June 28, 1979, by E.W. Campbell, and determined by A.B. Hamon. (E.W. Campbell).

OTHER RECORDS

INSECTS

GYPSY MOTH (Lymantria dispar) - SOUTH CAROLINA - First trap record for adult in Georgetown county. (see above).

CORRECTIONS

CPPR 4(29):571 - DETECTION - "A EULOPHID WASP ... (p. 570)." and "AN ICHNEUMONID WASP ... (p. 570)." should read "A EULOPHID WASP ... (p. 569)." and "AN ICHNEUMONID WASP ... (p. 569)."

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (mm)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laphygma frugiperda (fall armyworm)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																							
Mesa 8/6-12			BL					1	4						1		13	3	151		12	9	
CALIFORNIA																							
Bellota 8/13	16-27		BL	1	1				1								1	4	41			8	
Manteca 8/12	16-28		BL	1			3											54	53			9	
FLORIDA																							
Gainesville 8/9-15			BL				20		1						2					4	5		
MINNESOTA																							
Fergus Falls 8/8-14	9-32	0	BL	2			2										12						
Le Sueur 8/8-14	11-27	58.4	BL	10											400		1	1				3	
MISSISSIPPI																							
Stoneville 8/10-16	17-33	27.4	2BL	25	5		27	5	230						1		5	61	7	132	56	204	
TENNESSEE																							
Selmer 8/13-16			BL					1	4						8					9	6	10	
Springhill 8/9-16			BL												17		28						
TEXAS																							
College Station 8/8-14			BL	0	0			1	1					0	2			0		4	2	0	
WEST VIRGINIA (Counties)																							
Monroe 8/15			BL											1				4					
Putnam 8/10-12			BL	13					1									8					
WISCONSIN																							
Lancaster 8/9-15			BL	0					0						10	0	0						
Mazomanie 8/9-15			BL	0					0						221	0	0						

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Puccinia urbaniana P. Henn. a rust Det. E. Feliu	telial	on leaves of Stachytarpheta plants from baggage	Puerto Rico	San Juan	NY
Aphthona nigriceps (Redtenbacher) a chrysomelid beetle Det. R. White	adult	on Mentha plants from baggage	Cape Verde	Boston	MA
Cylas puncticollis Boheman a weevil Det. D.R. Whitehead	pupal adult	in sweet potatoes from baggage	Nigeria	Kennedy Airport	NY
Hylobius abietis (Linnaeus) a weevil Det. D.R. Whitehead	adult	in dunnage	West Germany	Mobile	--
Lobesia botrana (Schiffermuller) an olethreutid moth Det. D.M. Odermatt	larval	in grapes from baggage	Iran	Kennedy Airport	NY
Pityogenes quadridens (Hartig) a scolytid beetle Det. D.M. Anderson	larval adult	in dunnage with steel coils	Belgium	Memphis	--
Xyleborus sp. a scolytid beetle Det. D.M. Anderson	adult	in logs	New Guinea	San Francisco	--
Monacha syriaca (Ehrenberg) a helicid snail Det. R. Munkittrick	adult	on vans of household goods	Turkey	McGuire AFB	CA

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

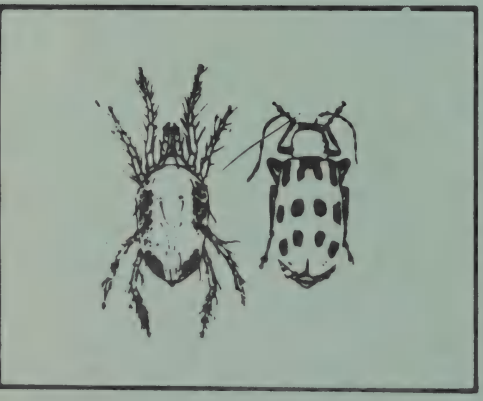
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

August 31, 1979

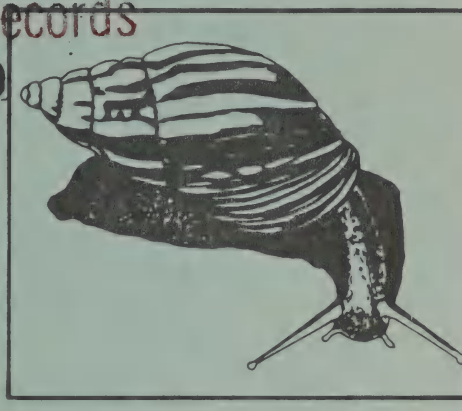
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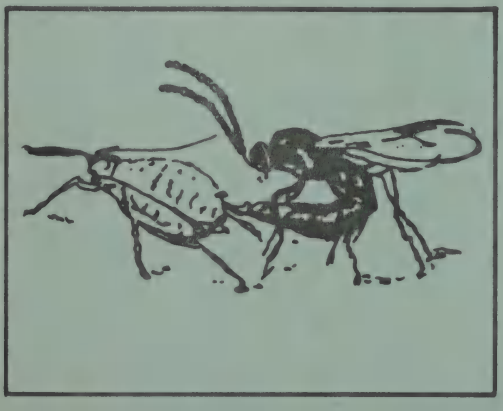
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

Heavier EUROPEAN CORN BORER infestations expected on corn in eastern one-third of Iowa. Adult flights still heavy in Wisconsin and Ohio. (p. 625).

FALL ARMYWORM damage extensive to corn, grain sorghum, and pastures in parts of Mississippi. (p. 626).

OAT CROWN RUST heavier than usual on oats in southern United States. Losses will be heavier than losses caused by stem rusts in Minnesota and South Dakota. (p. 627).

OAT DISEASE survey completed in Wisconsin. (p. 627-629, 639).

Predictions

Significant CORN EARWORM adult flights expected at more advanced sites in Wisconsin. (p. 625).

Detection

SUGARCANE RUST new for Texas and Louisiana. (p. 623-624).

For new county and parish records see page 641.

Reports in this issue are for the week ending August 24 unless otherwise indicated.

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DISEASES

COMMON MAIZE RUST (Puccinia sorghi) - OHIO - District> County= prevalence/severity on corn [blister] leaves in number of commercial fields (f) or monitoring plots (m), August 13-17: NW> Paulding= trace/trace in 1f, Wood= 75%/trace to 10% on cultivar H-95 in 1m, and WC> Clark= 50%/trace to 5% on cultivar H-95 in 1m. (R. Hite).

SUGARCANE RUST (Puccinia melanocephala) - TEXAS - New State record. District> County= collection data from sugarcane: Lower Valley> Willacy= all stages collected from sugarcane L 61-49 on farms at Raymondville, July 6, 1979, by J.L. Locklar, determined by F.G. Pollack. (J.T. Maddox). LOUISIANA - New State and parish records. (See table on p. 624). Infections very light on commercial varieties CP 65-357, CP 70-321, and CP 70-330 in test plots. Detected in 1 commercial planting in St. Mary Parish. (J.A. Turner).

COMMON SMUT (Ustilago maydis) - KANSAS - Appeared less prevalent than in previous years. District> County= prevalence on corn August 13-17: C> Barton= 1%, SC> Stafford= 1%, and SW> Haskell, Finney, WC> Wichita, and NW> Sherman= trace. (T. Sim, IV).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - District> County= prevalence/severity on sorghum [host stage] week ending August 17: NE> Marshall= 1%/light [flowering], EC> Osage= 80%/moderate [flowering to dough], SE> Bourbon= 60%/trace [dough], and SC> Harvey= trace/- [heading]. (T. Sim, IV).

ZONATE LEAF SPOT (Gloeocercospora sorghi) - KANSAS - First of season. District> County= prevalence on sorghum week ending August 17: SE> Bourbon= trace in 1 field. (T. Sim, IV).

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - District> County= prevalence/severity on sorghum [host stage] week ending August 17: EC> Lyon= 80%/moderate [flowering], SE> Bourbon= trace/- [dough], SC> Harvey= trace/- [heading], Reno= trace/- [flowering], Edwards= 100%/moderate [flowering], SW> Morton= 100%/moderate [boot], WC> Scott= 100%/moderate [flowering], and NW> Graham= 100%/moderate [flowering]. (T. Sim, IV).

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - District> County= prevalence/severity on sorghum [host stage] week ending August 17: NE> Marshall= trace/- [flowering], EC> Lyon= trace/- [flowering], SE> Crawford= trace/- [boot], Butler= trace/- [flowering], C> Marion= trace/- [boot], Barton= trace/- [heading], SC> Reno= trace to 30%/moderate [flowering], Edwards= 25%/moderate [flowering], and SW> Stevens= 100%/moderate [flowering]. (T. Sim, IV).

MAIZE DWARF MOSAIC VIRUS - KANSAS - Common on corn and sorghum in eastern two-thirds of State, present to lesser extent in western one-third of State. State survey of corn and sorghum conducted. Corn samples obtained from first or second corn-producing counties in all crop reporting districts except north-central. Prevalence on corn in any field rarely exceeded 2%. Area> County= prevalence on corn: NE> Nemaha= 2%, Brown= 1%, EC> Shawnee= 1%, SE> Bourbon= 1%, Crawford= 2%, C> Barton= 1%, SC> Stafford= 1%, SW> Haskell= trace, Finney= none seen, WC> Wichita= none seen, Wallace= none seen, NW> Sherman= none seen, Thomas= trace; prevalence (red leaf observed in all except Osage County) on sorghum [host stage]: NE> Marshall= trace to 5% [flowering], EC> Osage= trace [flowering to dough], Lyon= trace [flowering], SE> Crawford= trace [boot],

Table 1. Sugarcane rust (Puccinia melanocephala) records for Louisiana collected in 1979

District> Parish	Property type	Near	Date	Collector	Determiner	Reported by
SC> Iberia	outfield test plot on plantation	Jeanerette	Jun 18	H. Koike	H. Koike; confirmed by F.G. Pollack	H. Koike
SC> St. Martin	outfield test plot on plantation	Saint Martinville	Jun 19	H. Koike	H. Koike	H. Koike
SC> Iberville	experiment station	Saint Gabriel	Jun 22	W.J. Martin	W.J. Martin	W.J. Martin
SC> St. Mary	outfield test plot on plantation	Franklin	Jun 25	H. Koike	H. Koike	H. Koike
SC> Lafayette	outfield test plot on plantation	Broussard	Jun 27	R.J. Steib	R.J. Steib	R.J. Steib
SC> Assumption	outfield test plot on plantation	Napoleonville	Jul 9	W. Jackson, K. Bischoff, & D. Fonpenot	K. Bischoff	M. Giamalva
SC> St. John the Baptist	outfield test plot on plantation	Edgard	Jul 9	W. Jackson, K. Bischoff, & D. Fonpenot	K. Bischoff	M. Giamalva
SE> Lafourche	outfield test plot on plantation	Mathews	Jun 20	H. Koike	H. Koike	H. Koike
SE> St. James	outfield test plot on plantation	Saint James	Jun 21	H. Koike	H. Koike	H. Koike
SE> Terrebonne	USDA farm	Chacahoula	Jun 21	T.E. Kinsey, R.C. Carlton, E.E. LaFleur, & J.A. Turner	H. Koike	H. Koike
SE> Ascension	outfield test plot on plantation	Donaldsonville	Jun 27	C. Richard	C. Richard	H. Koike
C> Rapides	outfield test plot on plantation	Cheneyville	Jun 25	W. Jackson	H. Koike	H. Koike
C> West Baton Rouge	outfield test plot on plantation	Cinclare	Jun 28	R.J. Steib	R.J. Steib	R.J. Steib

Butler= maize dwarf mosaic virus trace [flowering], C> Marion= trace [boot], Barton= trace [heading], SC> Harvey= trace to 1% [heading], Reno= trace [flowering], SW> Stevens= trace [flowering], Morton= trace [boot], and WC> Wallace= trace [head to flower]. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - MISSOURI - District> County= status on corn week ending August 18: E> St. Charles= eggs none and larvae on 60% of plants in 1 field (Thomas), NW area> populations light, and NW> Nodaway= heaviest on late-planted corn, larvae and feeding damage on 2-41% of plants (R.E. Munson). IOWA - Area> status on corn week ending August 17: Statewide> adult flights and egg laying reported. Cool weather and heavy rains delayed egg laying in some areas and caused some adult mortality, delay may concentrate second brood larval emergence making single treatment more effective if economic levels reached. Heavier infestations expected in eastern one-third of State. (H.J. Stockdale).

WISCONSIN - European corn borer adult activity still heavy at many blacklight trap locations. District> County= status on corn: SC> Rock= egg masses 30-40 per 100 sweet corn plants in some fields, WC> St. Croix= egg masses 12-28 per 100 plants, NW> Polk= adult emergence in dissected stalks about 20%, and C> Waushara= adult emergence 67%, dissections indicate adult flight not over yet. Controls applied on sweet corn and green beans for some time. (O.L. Lovett).

GEORGIA - Area> European corn borer larval instars or pupae per 50 corn [host stage] plants in 1 site each, week of August 20: SW> 5th 7 [mature] (W.F. Wood), SE> 6th 1-5 (averaged 3) [mature] (K.L. Davenport, W.F Wood), and N> 4th to pupae 17 [dent] (E.W. Elder). SOUTH CAROLINA - District> County= larval status on corn week ending August 17: E> Williamsburg= light in 10 ha at Cades, caused 15% lodging. (J.L. King).

OHIO - European corn borer adult flights still heavy, egg masses common on corn. District> County= early instar larvae per 20 corn ears in several fields: SC> Brown= 2, Adams= 1, Highland= 2 (3rd instar), and SW> Clermont= 1. (G.P. Walker). VIRGINIA - District> County= status on corn: SW> Washington= damage extensive in late-planted fields August 21 (J.W. Derting), and populations very heavy on corn planted after June 10 (J.L. Garner). MARYLAND - District> County= status on corn: NC> Howard, Frederick, and Carroll= counts averaged 15 per 50 ears on dent corn, Eastern Shore area> counts averaged 22%, and statewide> stalk infestations ranged 15-52%. (J.L. Hellman).

CORN EARWORM (Heliothis zea) - NEW MEXICO - District> County= status on corn week ending August 17: NW> Bernalillo= populations moderately heavy on plants in Albuquerque area. (C. Heninger). ALABAMA - Area> larval instars or pupae (average) per 50 corn [dent] plants in number of sites (s) week of August 22: Sand Mountain> 2nd to pupae 2-6 (3.5) in 4s. (W.A. Smith). GEORGIA - Area> larval instars per 50 corn [mature] plants in 1 site each, week of August 20: SW> 6th 11 and SE> 6th 10. (W.F. Wood). WISCONSIN - First summer adults appear at about 666.7 degree-days (base 13°C) and significant adult flights occur at 722.2 degree-days (base 13°C). Start of significant flight (5+ adults) expected early this period at more advanced sites. District> County= status: SC> Columbia at Arlington, Rock at Janesville, and EC> Fond du Lac at Oakfield= early adults caught. (O.L. Lovett).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - District> County= status week ending August 16: EC> Oktibbeha= larvae and egg masses increased on corn and grain sorghum and light trap catches increased significantly, and S area> damage to corn, grain sorghum, and pastures continued heavy. Currently: Statewide> larvae continued extensive damage to untreated grain sorghum and late corn, and NE> Lee= infested 60% of sudangrass in 1 field with 2 treatments applied. (R. Anderson). ALABAMA - Area> larval instars (average) per 100 heads of sorghum [host stage] in number of sites (s) week of August 22: Gulf Coast> 3rd (2) [head] in 1s (L.W. Lockhart), and Central Alabama> 2nd to 5th 8-300 (81.5) [head] in 4s (W.N. Stephenson); on 50 corn plants: Sand Mountain> 2nd to 4th 2-25 (9.2) [dent] in 5s (W.A. Smith). FLORIDA - District> County= status on fall sweet corn [2 leaf] July 19: C> Alachua= infested 40% of plants in 32-ha planting at Alachua. Treatments required. (R.B. Baker). Current status on sweet corn: C> Alachua= infested 8-96% of 30 plantings, treatment needed on total of 142 ha at Alachua. (F.W. Mead).

KENTUCKY - Fall armyworm status week ending August 17: Larvae continued to damage late-planted corn in some areas; problem less serious than in recent periods. (P. Sloderbeck). OHIO - District> County= status on corn [host stage]: SW> Clermont= various instars on 30% of plants and damage on 61% of plants [midwhorl], infestation 5% and damage 65% in adjacent field [silk]. Infestations on ears of more mature corn in several fields: SC> Brown= about 1%, Highland= 10%, and Scioto= 5%. (G.P. Walker).

WEST VIRGINIA - District> County= fall armyworm larval infestations on field corn: SW> Mason= 30-92%, August 11 and E> Jefferson= 18-38% August 13. (C. Stuart). VIRGINIA - District> County= status on corn: S> Nottoway= newly hatched larvae and pupae on 80% of 1 late-planted field. (J.L. Garner). NEW YORK - Area> status on corn: Hudson Valley Region> activity light compared with 1978, probably due to cool nights and rain. First instar larvae heavy on silks of plants [very close to harvest] since temperatures returned to normal. (Straub).

SORGHUM WEBWORM (Celama sorghiella) - ALABAMA - Area> larval instars (average) per 100 sorghum [head] heads week of August 22: Central Alabama> 3rd (15) in 1 site. (W.N. Stephenson).

WESTERN BEAN CUTWORM (Loxagrotis albicosta) - COLORADO - Lighter than normal and scattered throughout northeastern area. District> County= counts per corn plant August 8-14: EC> Yuma= averaged 1 in 1 field in southern area. (W.M. Hantsbarger).

CORN ROOTWORMS (Diabrotica spp.) - MISSOURI - WESTERN CORN ROOTWORM (D. virgifera) light to moderate in northwestern area. District> County= adults per corn plant week ending August 18: NW> Atchison= 2.0, Holt= 2.6, and Nodaway= 1.4. (R.E. Munson). WISCONSIN - Annual Diabrotica spp. adult survey during past 2 periods indicate populations increased in southern one-half of State. Late sweet corn very attractive to many of these beetles. District> County= adults per plant in late sweet corn: SW> Grant= up to 14. (O.L. Lovett).

INDIANA - District> County= D. virgifera and NORTHERN CORN ROOTWORM (D. longicornis) adults, respectively, on 10 sticky traps in untreated corn week ending August 10 (same field in 1978): WC> Tippecanoe= 3,713 (197) and 261 (74). New county records. One western corn rootworm specimen each, collected after surveying up to 4 corn fields per county, August 14, 1979, by R. Meyer, and determined by F.T. Turpin (R.W. Meyer):

District> County	Nearest City	District> County	Nearest City
SC> Perry	Adyeville	SW> Vanderburgh	Daylight
SW> Spencer	Mariah Hill	SW> Warrick	Lynnville

SORGHUM MIDGE (Contarinia sorghicola) - ARKANSAS - Area> status on grain sorghum: NE> some fields above treatment level with adults up to 5 per head in some areas. (J. Kimbrough).

BANKS GRASS MITE (Oligonychus pratensis) - COLORADO - Area> status on corn August 8-14: NE> some buildups during hot, dry weather of previous period; advent of cool, wet weather slowed mite colony development and allowed Orius sp. (an anthocorid bug) and Stethorus sp. and Hippodamia sp. (lady beetles) predators to control populations. (W.M. Hantsbarger).

SMALL GRAINS

DISEASES

Small grain harvest gained momentum throughout northern United States grain-growing region August 16-22, but harvest in north-central States far behind normal. Some fields along Canadian border will require 1-2 additional weeks to mature. (A.P. Roelfs, D.L. Long).

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) widespread but light throughout winter and spring wheat-growing areas of U.S. in 1979. Lack of overwintering inoculum in OKLAHOMA, KANSAS, and NEBRASKA resulted in low disease severities and minimal losses in this area. Resistant cultivars in northern soft red winter, hard red spring, and durum wheat areas prevented losses in these areas. Some shift in pathogen virulence apparently inadequate to affect commercial cultivars. Most severe in southern low plains of TEXAS. Moderately rusted few fields in the DAKOTAS and MINNESOTA. (A.P. Roelfs, D.L. Long).

OAT CROWN RUST (Puccinia coronata var. avenae) development on oats in 1979 throughout southern U.S. heavier than normal. Losses occurred in southern TEXAS and late-maturing fields in north-central Texas. In northern U.S. oat-growing area, severely infected oat fields scattered primarily in MINNESOTA and Red River Valley of the DAKOTAS. Crown rust will account for more loss than stem rust in 1979 in Minnesota and South Dakota. (A.P. Roelfs, D.L. Long).

WISCONSIN - Oat crown rust in 53 of 70 fields throughout State. District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 73%/2%, Clark= 76%/2%, EC> Fond du Lac= 32%/3%, Manitowoc= 0%/0%, Kewaunee= 0%/0%, Brown= 2%/1%, Outagamie= 92%/1%, Sheboygan= 2%/1%, Calumet= 0%/0%, SC> Dodge= 96%/6%, Dane= 85%/5%, Green= 86%/5%, WC> St. Croix= 63%/1%, Pierce= 62%/1%, Dunn= 64%/1%, NW> Chippewa= 63%/1%, Barron= 71%/1%, NE> Shawano= 38%/1%, SW> Grant= 14%/1%, and Lafayette= 35%/1%. Average for State 48%/2%. (O.L. Lovett).

BARLEY LEAF RUST (Puccinia hordei) heavy in barley nurseries and light in commercial fields in 1979 except in northwest MINNESOTA and eastern NORTH DAKOTA where 30% severities reported in late-maturing fields week of August 17. This infection was heaviest barley leaf rust of last 2 years in the Dakotas and Minnesota. (A.P. Roelfs, D.L. Long).

RYE LEAF RUST (Puccinia recondita f.sp. secalis) severities in 1979 more extensive on rye than previously. Losses light and localized. (A.P. Roelfs, D.L. Long).

For stem rusts see p. 638-639.

OAT LOOSE SMUT (Ustilago avenae) - WISCONSIN - Found in 36 of 70 oat fields with some varieties severely affected. District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 0%/0%, Clark= 1%/1%, EC> Fond du Lac= 4%/19%, Manitowoc= 1%/2%, Kewaunee= 2%/3%, Brown= 2%/5%, Outagamie= 1%/1%, Sheboygan= 5%/15%, Calumet= 6%/2%, SC> Dodge= 2%/5%, Dane= 1%/2%, Green= 0%/0%, WC> St. Croix= 2%/10%, Pierce= 2%/10%, Dunn= 2%/10%, NW> Chippewa= 2%/8%, Barron= 2%/10%, NE> Shawano 0%/0%, SW> Grant= 1%/2%, and Lafayette= 1%/5%. Average for State 2%/6%. (O.L. Lovett).

OAT COVERED SMUT (Ustilago kolleri) - WISCONSIN - District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 0%/0%, Clark= 0%/0%, EC> Fond du Lac= 2%/12%, Manitowoc= 1%/1%, Kewaunee= 0%/0%, Brown= 0%/0%, Outagamie= 0%/0%, Sheboygan= 2%/8%, Calumet= 4%/20%, SC> Dodge= 0%/0%, Dane= 0%/0%, Green= 0%/0%, WC> St. Croix= 0%/0%, Pierce= 0%/0%, Dunn= 0%/0%, NW> Chippewa= 0%/0%, Barron= 0%/0%, NE> Shawano= 0%/0%, SW> Grant= 0%/0%, and Lafayette= 0%/0%. Average for State 1%/2%. (O.L. Lovett).

SPECKLED BLOTCH (Leptosphaeria (Septoria) avenaria) - WISCONSIN - Prevalence and severity of imperfect stage light on oats in 17 of 70 fields in 9 counties. District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 7%/1%, Clark= 1%/1%, EC> Fond du Lac= 4%/1%, Manitowoc= 4%/1%, Kewaunee= 2%/1%, Brown= 27%/1%, Outagamie= 1%/1%, Sheboygan= 0%/0%, Calumet= 0%/0%, SC> Dodge= 0%/0%, Dane= 0%/0%, Green= 0%/0%, WC> St. Croix= 0%/0%, Pierce= 0%/0%, Dunn= 0%/0%, NW> Chippewa= 0%/0%, Barron= 0%/0%, NE> Shawano= 22%/1%, SW> Grant= 1%/1%, and Lafayette= 0%/0%. Average for State 3%/1%. (O.L. Lovett).

A SEPTORIA LEAF BLOTCH (Septoria sp.) - NORTH DAKOTA - District> County= prevalence/severity on spring wheat [dough] week of August 13: EC> Cass, Barnes, SE> Richland, Sargent, Dickey, La Moure, Logan, SC> Emmons, Burleigh, C> Kidder, and Stutsman= trace to 80%/trace to 5%. (V.L. Jons).

HALO BLIGHT (Pseudomonas coronafaciens) - WISCONSIN - Development light in 13 of 70 fields surveyed in 6 counties in southwest and south-central districts. District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 0%/0%, Clark= 0%/0%, EC> Fond du Lac= 0%/0%, Manitowoc= trace/-, Kewaunee= 0%/0%, Brown= 0%/0%, Outagamie= 0%/0%, Sheboygan= 0%/0%, Calumet= trace/-, SC> Dodge= 7%/1%, Dane= 7%/1%, Green= 0%/0%, WC>

St. Croix= halo blight 0%/0%, Pierce= 0%/0%, Dunn= 0%/0%, NW> Chippewa= 0%/0%, Barron= 0%/0%, NE> Shawano= 0%/0%, SW> Grant= 16%/2%, and Lafayette= 50%/3%. Average for State 4%/1%. (O.L. Lovett).

XANTHOMONAS BACTERIAL STRIPE (Xanthomonas translucens) - NORTH DAKOTA - District> County= prevalence/severity on spring wheat [dough] week of August 13: EC> Cass, Barnes, SE> Richland, Sargent, Dickey, La Moure, Logan, SC> Emmons, Burleigh, C> Kidder, and Stutsman= trace to 80%/trace to 10%. (V.L. Jons).

HELMINTHOSPORIUM LEAF BLOTCH (Helminthosporium avenae) - WISCONSIN - Present in 13 of 20 counties surveyed, heaviest in north-central and northeast districts; severity light. District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 15%/1%, Clark= 5%/1%, EC> Fond du Lac= 26%/5%, Manitowoc= 14%/3%, Kewaunee= 29%/2%, Brown= 58%/2%, Outagamie= 3%/1%, Sheboygan= 24%/4%, Calumet= 12%/2%, SC> Dodge= 1%/1%, Dane= 0%/0%, Green= 15%/1%, WC> St. Croix= 0%/0%, Pierce= 0%/0%, Dunn= 0%/0%, NW> Chippewa= 0%/0%, Barron= 0%/0%, NE> Shawano= 27%/1%, SW> Grant= 1%/1%, and Lafayette= 0%/0%. Average for State 11%/1%. (O.L. Lovett).

TAN SPOT (Pyrenophora trichostoma) - NORTH DAKOTA - District> County= prevalence/severity on spring wheat [dough] week of August 13: EC> Cass, Barnes, SE> Richland, Sargent, Dickey, La Moure, Logan, SC> Emmons, Burleigh, C> Kidder, and Stutsman= 100%/20-50%. (V.L. Jons).

BARLEY YELLOW DWARF VIRUS - WISCONSIN - District> County= average percent prevalence of red leaf (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 1%/1%, Clark= 1%/1%, EC> Fond du Lac= 0%/0%, Manitowoc= 0%/0%, Kewaunee= 0%/0%, Brown= 0%/0%, Outagamie= 1%/2%, Sheboygan= 0%/0%, Calumet= 0%/0%, SC> Dodge= 0%/0%, Dane= 0%/0%, Green= 0%/0%, WC> St. Croix= 0%/0%, Pierce= 0%/0%, Dunn= 0%/0%, NW> Chippewa= 0%/0%, Barron= 0%/0%, NE> Shawano= 0%/0%, SW> Grant= trace/-, and Lafayette= trace/-. Average for State 1%/1%. (O.L. Lovett).

INSECTS

HESSIAN FLY (Mayetiola destructor) - ILLINOIS - Wheat stem sample analysis completed. Puparia in 5 of 20 counties sampled and average infestation 1+% in 1 county. District> County= average wheat tillers infested: SW> Jackson= 1.6%. (K. Black).

TURF, PASTURES, RANGELAND

INSECTS

TWOLINED SPITTLEBUG (Prosapia bicincta) - SOUTH CAROLINA - District> County= nymphal and adult average on Coastal bermudagrass August 14: C> Clarendon= 5 on 8.1 ha at Manning. (J.L. King).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= larvae per 25 sweeps of alfalfa week ending August 10: NW> Bernalillo= 0-1. (C. Heninger). MONTANA - District> County= larval average per sweep of alfalfa week ending August 17: SW> Gallatin= about 0.5-4 in 2 fields. (W. Morrill, G. Jensen).

PEA APHID (Acyrthosiphon pisum) - NEW MEXICO - District> County= status on alfalfa week ending August 17: SE> Eddy= light, mostly 10-15 per 25 sweeps in Malaga and Loving areas. (T. Riddle).

LYGUS BUGS (Lygus spp.) - NEVADA - District> County= averages per sweep of seed alfalfa week ending August 10: W> Pershing= nymphs, mostly 1st to 3rd instars, 100-125 and adults 3 on 44.5 ha at Lovelock. (G. Munk, L. Stitt).

ALFALFA SEED CHALCID (Bruchophagus roddi) - NEVADA - District> County= adults per sweep of seed alfalfa week ending August 10: W> Humboldt= 5-15 on 202 ha at Jungo. (L. Stitt).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - KANSAS - District> County= prevalence on soybeans week of August 17: C> Barton= trace in 1 irrigated field. (T. Sim, IV). MISSOURI - District> prevalence on soybean [host stage] cultivar August 13-17: NE> trace in some fields and 30-80% [pod developing] on Amsoy 71 in other commercial fields. (A. Foudin). OHIO - District> County= prevalence on soybeans [host stage] in 1 commercial field each, August 13-17: NW> Hancock= 1% scattered to 100% in low areas [flower below uppermost node], Henry= 1% scattered [pod 0.5 cm], Paulding= trace [pod 2 cm], WC> Darke= 1% [pod 2 cm], Hardin= 2-50% in low areas [seed development], and Mercer= trace [pod 2 cm]. (R. Hite).

SOYBEAN STEM CANKER (Diaporthe phaseolorum var. caulivora) - KANSAS - District> County= prevalence on soybeans week of August 17: C> Barton= trace in 1 irrigated field. (T. Sim, IV).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - MISSOURI - District> prevalence on soybeans August 13-17: NE> 40-100% (averaged 90-100%) in commercial fields. (A. Foudin). OHIO - District> County= prevalence/severity on soybean [host stage] leaves in commercial fields (f) or monitoring plots (m) August 13-17: NE> Wayne= 100%/trace to 30% [12 nodes to seed development] in 1m, NW> Hancock= 100%/5% [flower below uppermost node] in 1f, Henry= 100%/1% [pod 0.5 cm] in 1f, Paulding= 100%/1% [pod 2 cm] in 1f, Williams= 100%/1% [pod 2 cm] in 1f, Wood= trace to 100%/trace to 2% [15 nodes to seed full size) in 1m, WC> Clark= trace to 100%/1-2% [flower to pod yellowing] in 1m, Darke= 100%/2-3% [pod 2 cm] in 1f, Hardin= 100%/1-20% [seed development] in 2f, Logan= 100%/2-5% [seed development] in 2f, Mercer= 100%/2% [pod 2 cm] in 1f, and SW> Preble= 100%/1% [seed development] in 1f. (R. Hite).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - NORTH DAKOTA - District> County= prevalence/severity on soybean [host stage] leaves in commercial fields week of August 13: EC> Cass and Barnes= 100%/trace to 5% [flowering to pod 1.0 cm] and SE> Richland= 100%/5% [pod 1.0 cm]. (V.L. Jons). MISSOURI - District>

soybean bacterial blight prevalence/severity on soybeans August 13-17: NE> 100%/trace to 8% in commercial fields. (A. Foudin).

OHIO - District> County= prevalence/severity on soybeans [host stage] in commercial fields (f) or monitoring plots (m) August 13-17: NW> Henry= 100%/trace [pod 0.5 cm] in 1f, Wood= trace to 100%/trace [15 nodes to seed full size] in 1m, WC> Clark= trace to 100%/trace [flower to pod yellowing] in 1m, and Hardin= trace/trace [seed development] in 1f. (R. Hite).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - OHIO - District> County= prevalence/severity on soybean [host stage] leaves August 13-17: NW> Wood= 100%/5% [seed full size] in 1 monitoring plot. (R. Hite).

SOYBEAN BROWN SPOT (Septoria glycines) - NORTH DAKOTA - Area> prevalence on soybean [beginning seed set] lower leaves week ending August 13: Statewide> trace in commercial fields. (V.L. Jons). OHIO - District> County= prevalence/severity on soybean [host stage] leaves in number of commercial fields (f) or monitoring plots (m) week ending August 17: NE> Wayne= 100%/5-10% [12 nodes to seed development] in 1m, NW> Hancock= 100%/5% [flower below uppermost node] in 1f, Henry= 100%/5% [pod 0.5 cm] in 1f, Paulding= 100%/5% [pod 2 cm] in 1f, Williams= 100%/5% [pod 2 cm] in 1f, Wood= 100%/5-10% [15 nodes to seed full size] in 1m, WC> Clark= 100%/5-15% [flower to pod yellowing] in 1m, Darke= 100%/5% [pod 2 cm] in 1f, Hardin= 100%/5% [seed development] in 1f, Logan= 100%/10% [seed development] in 1f, Mercer= 100%/5% [pod 2 cm] in 1f, and SW> Preble= 100%/5% [seed development] in 1f. (R. Hite).

SOYBEAN MOSAIC VIRUS - OHIO - District> County= prevalence on soybeans [host stage] in commercial fields (f) or monitoring plots (m) August 13-17: NE> Wayne= trace [12 nodes to seed development] in 1m, NW> Wood= trace [15 nodes to seed full size] in 1m, WC> Clark= trace [flower to pod yellowing] in 1m, and Hardin= trace [seed development] in 1f. (R. Hite).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - ALABAMA - Area> adult averages per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s) week of August 22: Wiregrass> 6 [pod] and 5% in 1s (Knox-Wilson), and Tennessee River> 3 [pod set] and trace in 1s (J.E. Gregory). KENTUCKY - Larval populations above economic levels in some areas near the Ohio River. District> County= status on soybeans week ending August 17: C> Meade= larvae 16-133 (averaged 56) per row m in 5 early planted fields. All larval stages and light adult populations observed. Populations in later planted soybeans appeared to be much lighter. (K.V. Yeargan, D. Isenhour).

OHIO - Additional Mexican bean beetle larval generation underway in southern area, bad situation in some soybean fields will worsen. (G.P. Walker).

District> County	Larvae per sweep	Adults per sweep	Date
SW> Hamilton	less than 0.02	0.14	Aug 20
SW> Clermont	1.50	1.40	Aug 20
SC> Highland	0.02	0.16	Aug 21
SC> Adams	less than 0.02	0.02	Aug 21
SC> Adams	4.50	3.40	Aug 21
SC> Scioto	0.70	1.60	Aug 21

MARYLAND - Area> Mexican bean beetle status on corn: Eastern Shore> defoliation by young larvae and adults 5-15% in most heavily infested fields, and C> populations and leaf damage very light, less than 8%. Insect development and damage levels 2 weeks later than in 1978. (J.L. Hellman).

BEAN LEAF BEETLE (Cerotoma trifurcata) - MISSISSIPPI - District> County= adults per 25 sweeps of soybeans [pod set] week ending August 16: NC> Grenada, Lower Delta> Washington, Leflore, Sunflower, and Upper Delta> Bolivar= 0-12 per 25 sweeps. Current status on soybeans: EC> Noxubee, Kemper, Neshoba, and Winston= 1-18 per 25 sweeps, defoliation light in fields sampled. (R. Anderson).

ALABAMA - Area> bean leaf beetle nymphal or adult range if given (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s) week of August 22: Gulf Coast> adults 1-5 (2.3) [pod] and 10% in 3s (L.W. Lockhart), Coastal Plains> adults 1-10 (5.2) [pod] and 2% in 5s (T. Lemons), Wiregrass> adults (2) [beginning pod] and 5% in 2s (Knox-Wilson), Central Alabama> adults 6-12 (9) [beginning pod] and 5% in 2s (W.N. Stephenson), Black Belt> adults 1-109 (40.5) [pod set] and 5% in 4s (T. Pigott), Tennessee River> nymphs 5-17 (10.6) [pod set] and trace in 5s (J.E. Gregory), and Sand Mountain> nymphs (1) [full bloom to beginning seed] and 10% in 2s (W.A. Smith).

GRAPE COLASPIS (Colaspis brunnea) - ARKANSAS - District> County= adults on soybeans: NE> Clay= heavier in foxtail-infested fields than in weed-free fields. Field averaging 3 adults per 25 sweeps decreased from average of 25 per 25 sweeps of mid-July. (M.A. Mayse, N.P. Tugwell).

WHITEFRINGED BEETLES (Graphognathus spp.) - ALABAMA - Area> adult range (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s) week of August 22: Gulf Coast> 1-4 (2.5) [pod] and 10% in 2s (L.W. Lockhart) and Wiregrass> 20-40 (31.3) [beginning pod] and 5% in 4s (Knox-Wilson). GEORGIA - Area> status (average) per 4.6 row m of soybeans [host stage] in number of sites (s) week of August 20: SW> adults 1-8 (4.6) [flower below uppermost node to pod 2 cm] in 7s (G. Galbreath et al.), SE> 4th instar to adults 1-15 (8) [pod 0.5 cm] in 2s (K.L. Davenport, T.H. Murphy), and C> adults 1 [seed full size] in 1s (W.J. Roberts). SOUTH CAROLINA - New county record for Graphognathus peregrinus. District> County= collection data from soybeans: S> Berkeley= light near Moncks Corner July 27, 1979, by J.A. Schoenholz, determined by R. Bollinger. (M.E. Gilreath).

CORN EARWORM (Heliothis zea) - GEORGIA - Area> larval instars (average) per 4.6 row m of soybeans [host stage] in number of sites (s) week of August 20: SW> 1st to 4th 207 (4.3) [flower below uppermost node to seed development] in 6s (G. Galbreath et al.), SE> 2nd to 5th 1-7 (4.7) [pod 0.5 cm to seed development] in 3s (W.M. Fortson et al.), and C> 2nd to 5th 1-7 (4) [seed development to seed full size] in 3s (W.J. Roberts).

SOUTH CAROLINA - District> County= corn earworm on soybeans week ending August 17: Savannah Valley District> larvae feeding on pods reached threshold levels of up to 26 per row m in widely scattered areas; C> Calhoun at Fort Motte, S> Barnwell at Blackville, Bamberg at Olar, Allendale at Allendale, and Hampton at Brunson and Furman= controls recommended, foliage feeding not much of a problem (J.W. Chapin); and E> Williamsburg= adults averaged 2 per row m in 16-ha and 1-ha fields near Cades (J.L. King).

NOCTUID MOTHS (Heliothis spp.) - ARKANSAS - Larvae relatively light in soybean fields in southwestern area. District> County= status on soybeans: SE> Chicot and Ashley= larvae 1 in 6 fields checked (M. Wall), SW> Little River= larvae averaged 1 per 2 row m, and Miller= larvae 1 per 11 row m. (M.A. Mayse).

GREEN CLOVERWORM (Plathypena scabra) - ALABAMA - Area> larval instars (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s) week of August 22: Gulf Coast> 2nd to 4th 6-13 (9.5) [pod] and 10% in 2s (L.W. Lockhart), Coastal Plains> 1st to 5th 3-18 (8.7) [pod] and 1-12% in 3s (T. Lemons), Wiregrass> 1st to 4th 4-10 (7) [beginning pod] and 5% in 4s (Knox-Wilson), Central Alabama> 1st to 4th 4-32 (21.2) [bloom to pod] and 5% in 5s (W.N. Stephenson), Black Belt> 1st to 4th 16-39 (24.8) [pod set] and 5% in 5s (T. Pigott), Tennessee River> 1st to 3rd 4-17 (11) [pod set] and trace (J.E. Gregory), and Sand Mountain> 1st to 4th 1-6 (2.6) [pod] and 10% in 5s (W.A. Smith).

MISSISSIPPI - District> County= green cloverworm larvae per 0.3 row m of soybeans [pod set] week ending August 16: NC> Grenada, Lower Delta> Leflore, Washington, Sunflower, and Upper Delta> Bolivar= 0-1.3; currently on soybeans [pod set and pod fill]: EC> Noxubee, Kemper, Neshoba, and Winston= 0-2.6. (R. Anderson). ARKANSAS - District> larval counts on soybeans: SW> averaged 1.5 per 0.3 row m, NE> reached about 10 per 25 sweeps (M.A. Mayse), and SE> averaged about 2 per 0.3 row m. (M. Wall). IOWA - Area> status on soybeans week ending August 17: C> populations continued to decrease. (L.H. Townsend).

SOYBEAN LOOPER (Pseudoplusia includens) - ALABAMA - Area> larval instars (average if given) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s) week of August 22: Gulf Coast> 2nd to 4th 1-10 (4.7) [pod] and 10% in 3s (L.W. Lockhart), Coastal Plains> 1st to 5th 3-70 (25.6) [pod] and 1-12% in 5s (T. Lemons), Wiregrass> 1st to 3rd 2-4 (3) [beginning pod] and 5% in 2s (Knox-Wilson), Central Alabama> 3rd 2-4 (3) [bloom to pod] and 5% in 2s (W.N. Stephenson), Black Belt> 3rd 1 [pod set] and 5% in 1s (T. Pigott), and Tennessee River> 3rd to 4th 1-4 (2.3) [pod set] and 5% in 3s (J.E. Gregory).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status on soybeans June 19: C> Alachua= averaged 1.3 per 0.3 row m on 162 ha of late-planted plants [small] at Alachua. (R.B. Baker).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status on soybeans: NW> Jackson= severe in county, especially in Campbellton area August 17 (J.E. Arnold) and C> Alachua and Levy= population over threshold of 4 per 0.3 row m, 121 ha required treatment (R.B. Baker).

GEORGIA - Area> velvetbean caterpillar larval instars (average) per 4.6 row m of soybeans [host stage] in number of sites (s) week of August 20: SW> 1st to 4th 1-8 (4.6) [full bloom to beginning seed] in 6s (G. Galbreath et al.), SE> 4th 1-3 (2) [beginning pod] in 2s (K.L. Davenport, T.H. Murphy), and C> 2nd to 3rd (4) [beginning seed] in 1s (W.J. Roberts).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - GEORGIA - Area> range (average) per 4.6 row m of soybeans [host stage] in number of sites (s) week of August 20: SW> nymphs to adults 2-4 (3.2) [pod 0.5 cm to pod 2 cm] in 4s (G. Galbreath et al.), SE> nymphs to adults 1-2 (1.5) [pod 0.5 cm] in 2s (T.H. Murphy, W.F Wood), and C> adults 1 [bean development] in 1s (W.J. Roberts).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - MISSISSIPPI - District> County= adult and nymphs per 25 sweeps of soybeans [pod set] week ending August 16: NC> Grenada, Lower Delta> Leflore, Sunflower, Washington, and Upper Delta> Bolivar= 0-8. (R. Anderson).

GRASSHOPPERS - ILLINOIS - Damage by mostly Melanoplus differentialis becoming very noticeable to border rows in many soybean and corn fields. (K. Black).

PEANUTS

INSECTS

CORN EARWORM (Heliothis zea) - FLORIDA - District> County= larvae, mostly this species, per 0.3 row m of peanuts: NW> Jackson= 0.7-5.3 in untreated plots at Greenwood. (W.B. Tappan). SOUTH CAROLINA - District> County= larvae, mostly this species, per 0.3 row m of peanuts August 14: C> Lee and Sumter= up to 18, fed on foliage. (D.G. Manley).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status on peanuts: C> Alachua= population at threshold level, 4 per 0.3 row m at High Springs, 8.1 ha required treatment; Levy= about 40 ha at threshold level required treatment. (R.B. Baker).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - SOUTH CAROLINA - District> County= status of this species and SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) on peanuts August 14: E> Marion= infestations up to 10% in Peedee area. (D.G. Manley).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - ARKANSAS - District> County= status on cotton: SE> Chicot= no infestations very heavy in 57 of 248 fields. (M. Wall). MISSISSIPPI - Major cotton pest week ending August 16. District> County= status: EC> Winston, Neshoba, and Kemper= punctured squares up to 60% in fields, controls applied. Problems also in other "hill section" areas. Currently continued to cause problems in "hill section" areas. District> County= damaged squares: C> Holmes= 5-10%, Rankin= 6-10%, NC> Yalobusha= 4-12%, Tate= 0-16%, EC> Winston= 2-30%, and Lowndes= 2-4%. (R. Anderson). SOUTH CAROLINA - District> County= status on cotton August 16: S> Allendale= infestations heavy in 160 ha, infested all plants in several fields. (J.L. Brewer). Weevils trapped August 13-16 as part of Boll Weevil Monitoring Program (B. White et al.):

District> County	Mean number per trap	Number of traps
E> Darlington	2.5	47
E> Florence	3.6	10
E> Marlboro	1.5	83
E> Marion	7	7

BOLLWORMS (Heliothis spp.) - NEW MEXICO - District> County= BOLLWORM (H. zea) status on cotton week ending August 10: SE> Eddy= population increased around Artesia. Beneficial populations still heavy and chemical controls will probably not be needed. (B. Campbell). Status week ending August 17: SE> Eddy= larvae light. (T. Riddle, B. Campbell).

ARKANSAS - H. zea and TOBACCO BUDWORM (H. virescens) larvae still unusually light statewide, no problems reported from northeastern area. (J. Kimbrough). District> County= status: SE> Jefferson= heaviest counts of 4 eggs and 6 larvae per 8.5 row m, and Chicot= square damage 1+ per 0.3 row m in 3 of 248 fields. Generally, larvae about 2% tobacco budworm. (M. Wall). Adults captured in blacklight traps (M.A. Mayse):

District> County	Bollworm	Tobacco budworm	Number of traps
NE> Mississippi	184	4	6
NE> St. Francis	100	1	3

MISSISSIPPI - Heliothis spp. populations on cotton still relatively light for time of year but increased during past period. District> County= larval counts: Upper Delta> Bolivar= 2-3%, NC> Yalobusha= 0-4%, C> Montgomery= 2-3%, Holmes= 6-10%, NE> Itawamba= 1%, and C> Rankin= 0-2%. Adults 3-62 per night in 10 light traps, increased over past periods. (R. Anderson).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Larvae still light on cotton in many areas, slight increase during past period week ending August 16. Damaged bolls caused concern in southern cotton-growing areas. Limited controls applied. (R. Anderson).

EUROPEAN CORN BORER (Ostrinia nubilalis) - SOUTH CAROLINA - District> County= status on cotton August 17: C> Lee= stalk feeding damaged 70% of 30-ha field, caused lodging and overall plant weakness, other fields not so severely damaged. (D.G. Manley).

MISCELLANEOUS FIELD CROPS

DISEASES

SUNFLOWER RUST (Puccinia helianthi) - NORTH DAKOTA - District> prevalence on sunflowers week of August 13: EC, SE, SC, and C> light in many fields and moderate in few. (V.L. Jons).

INSECTS

SUNFLOWER MOTH (Homoeosoma electellum) - SOUTH CAROLINA - No previous problem in State. Up to 4 larvae per head in sunflower plots planted April 10 to May 8. (J.W. Chapin).

POTATOES, TOMATOES, PEPPERS

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - OHIO - District> County= status on potatoes: NE> Wayne= second generation larvae in vines. (D. Simonet). MAINE - Infestations up 80+% in some potato fields, full extent still in question. Many later planted fields almost entirely free. Problem expected in 1980. (A. Gall).

GREEN PEACH APHID (Myzus persicae) - IDAHO - District> County= status on potatoes August 10: SW> Canyon= adults 0 per 20 leaves and 0 per trap pan at Parma. (D. Van Deusen).

BEANS AND PEAS

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - NEW HAMPSHIRE - Populations increased steadily past 2 periods in southeastern area. County= status on pole beans August 7-13: Rockingham and Strafford= heavy. (Porcellini).

EUROPEAN CORN BORER (Ostrinia nubilalis) - WISCONSIN - Adult activity very heavy, expected to continue for some time. Controls should continue on susceptible crops. Also see European corn borer page 625. (O.L. Lovett).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - WISCONSIN - District> County= adults caught August 14-20: SC> Columbia= 5 in pheromone trap at Arlington and SE> Washington= 5 in blacklight trap at Hartford. (O.L. Lovett).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - IDAHO - District> County= pheromone trap counts: SW> Canyon= 5 on August 6, 2 August 9, 8 August 14, 1 August 17, and 18 August 21 in Central Cove area. (C.R. Baird). NEW MEXICO - District> County= larvae per fruit week ending August 17: NW> Bernalillo= 1-3, heavy on untreated apples and pears in Albuquerque area. (C. Heninger). OHIO - Adult flights seem to be decreasing. District> County= counts from 4 pheromone traps August 14-20: NE> Wayne and NC> Ashland= 10. (F. Hall). NEW YORK - Area> status on fruit: Hudson Valley Region> damage showed up as pin holes surrounded by halo of necrotic tissue. (Ophardt).

APPLE MAGGOT (Rhagoletis pomonella) - MAINE - County= adult averages per 6 sticky traps on apples: Kennebec= 1-2 at Monmouth in commercial orchards. (A. Gall).

WHITE APPLE LEAFHOPPER (Typhlocyba pomaria) - WASHINGTON - District> County= status in most orchards August 15: NE> Spokane= adults and feeding damage evident at Greenbluff with populations especially heavy in young plantings. (A. Retan). OHIO - District> County= status: C> Fairfield= egg hatch still not complete, mostly small nymphs. Controls needed. (R.P. Holdsworth).

SAN JOSE SCALE (Quadraspidiotus perniciosus) - OREGON - County= status on pears: Jackson= last brood crawlers emerged in orchard. Controls needed to protect late-picked winter fruit varieties. (D. Berry).

PEAR SAWFLY (Caliroa cerasi) - MONTANA - District> County= status week ending August 17: SW> Gallatin= larvae caused much defoliation and concern. (G. Jensen).

MCDANIEL SPIDER MITE (Tetranychus mcdanieli) - WASHINGTON - District> County= status in orchards August 15: NE> Spokane= populations moderate to heavy in abandoned orchards and light to moderate in commercial orchards at Greenbluff. (A. Retan).

EUROPEAN RED MITE (Panonychus ulmi) - WASHINGTON - District> County= status in commercial orchards August 15: NE> Spokane= populations light to moderate at Greenbluff. (A. Retan). MAINE - County= status on apples: Kennebec= populations decreased some from last period but still averaged 10-60 per leaf in nontreated acaricide test plots at Monmouth. (A. Gall).

PECAN NUT CASEBEARER (Acrobasis nuxvorella) - NEW MEXICO - District> County= status week ending August 10: SE> Chaves= population showed 3-5% on pecan clusters at Roswell and Lea= population increase large. Status week ending August 17: SE> Lea= infested about 53 trees around Hobbs area. (T. Riddle).

WALNUT CATERPILLAR (Datana integerrima) - KENTUCKY - District> County= larvae on walnuts week ending August 17: Bluegrass> Fayette and C> Hart= defoliating trees. (P. Sloderbeck).

PECAN WEEVIL (Curculio caryae) - MISSISSIPPI - Weevil emergence indicates heavy population on pecans thus far this season. Soil moisture ideal for emergence. District> County= cone trap catches August 15-22: EC> Lowndes= 30 in 24 traps. (R. Anderson).

WALNUT HUSK FLY (Rhagoletis completa) - WASHINGTON - District> County= status on walnuts August 17: SE> Asotin= adult mating and egg laying heavy in several areas of Clarkston. (R. Mills, A. Retan).

ORNAMENTALS

INSECTS

FERN SCALE (Pinnaspis aspidistrae) - FLORIDA - New county record. District> County= collection data from Nephrolepis sp. (a fern): NW> Jackson= adults moderately infested stems and leaves of 98% of 200 plants in nursery at Graceville, collected August 8, 1979, by D. Reese, determined by A.B. Hamon. Plants in nursery 1+ years. (D. Reese).

FOREST AND SHADE TREES

INSECTS

SPRUCE BUDWORM (Choristoneura fumiferana) - MAINE - Area> status on spruce fir: Statewide> egg masses generally moderate to heavy (most eggs hatched), very small larvae on foliage, few very heavy populations; W and E> some inflight activity occurred July 12-15; and outside and south of spruce fir area> adult buildup did not reach significant levels. (A. Gall).

ZIMMERMAN PINE MOTH (Dioryctria zimmermani) - INDIANA - District> County= status: NC> Fulton= larvae 4, pupae 20, and empty pupal cases 4 of 28 specimens August 11, indicate adult emergence at least by August 11, and WC> Tippecanoe= first adults emerged from landscape pines August 15. (J.W. Yonker).

A DIASPIDID SCALE (Quadraspidiotus taxodii) - FLORIDA - New county record. District> County= collection data from Taxodium distichum (bald-cypress): C> Lake= adults moderately infested stems and leaves in city park at Howey, collected July 11, 1979, by L. Chambliss and G. Smith, determined by A.B. Hamon. Tree at least 25 years old and growing by lake in wild. (Chambliss).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= adult average per head on small beef herd July 20: C> Alachua= 380 at Newberry. (D. Boyd).

FACE FLY (Musca autumnalis) - MISSOURI - District> County= counts (average) per face on 2 large herds week ending August 18: NW> Atchison and Nodaway= 2-50 (10). (R.E. Munson).

MOSQUITOES - ARKANSAS - Adults collected in New Jersey-type light traps July 26 to August 7 and August 8-15, respectively (M.A. Meisch, D. Bassi):

District> County	Number of Traps	Number of Psorophora	Number of Aedes	Number of Culex	Number of Anopheles
SE> Ashley	5	9381	25	875	1,781
EC> St. Francis	5	1050	29	106	1,354

OHIO - Mosquito larvae heavy everywhere in excess standing water caused by frequent rains. District> County= status: C> Franklin and NE> Stark= heavy blacklight trap counts continued. (R. Berry).

FEDERAL AND STATE PROGRAMS

DISEASES

A BARLEY STEM RUST (Puccinia graminis f.sp. tritici) light throughout U.S. in 1979. Scattered small to moderate sized uredia on late-maturing barley fields in Red River Valley of the North week of August 17. Losses will be none to light. (A.P. Roelfs, D.L. Long).

BLACK STEM RUST (Puccinia graminis) aecia collected in WEST VIRGINIA, IOWA, MINNESOTA, WISCONSIN, and southeastern Canada in 1979. More aecial infection observed on barberry bushes in West Virginia than in last 5 years. Aecial infection heavier than usual on barberries in upper midwest due to extended cool, moist spring conditions, allowing for abundant and continued basidiospore production. Majority of aecial collections identified as Puccinia graminis f.sp. secalis, but Puccinia graminis f.sp. tritici and Puccinia graminis f.sp. avenae races also identified. (A.P. Roelfs, D.L. Long).

OAT STEM RUST (Puccinia graminis f.sp. avenae) widespread but light on oats in south TEXAS and absent in central Texas, in April 1979. Rapid increase anticipated but high percentage of this southern oat rust avirulent on Pg-2 or 4, found in spring oat cultivars. Thus, lack of inoculum of virulent races delayed disease increase during May. Centers of infection noted in MINNESOTA from inoculum that arrived in late May. Centers widely scattered, however, secondary spreads indicated that they may have been as infrequent as 1 per county. Although initial infection 20 days earlier than normal, low prevalence upset potential effect of early arrival on the epidemic. Losses moderate in initial infected fields and will be light to moderate in late-planted fields in the DAKOTAS and Minnesota. Race NA-27 most prevalent race identified in 1979. Race NA-16 frequencies fewer than in 1978, but many wild oat collections on which NA-16 usually predominate remain to be identified. Following races identified from collections received before August 21. An asterisk (*) represents less than 0.6%. (A.P. Roelfs, D.L. Long).

Area	Number of collections	Percent of isolates of each oat stem rust race									
		NA-1	NA-2	NA-3	NA-5	NA-7	NA-16	NA-23	NA-24	NA-27	NA-29
FL	2									100	
IA	9									100	
MN	32							3	6	91	
OK	1						100				
SD	5									100	
TX> North	34	13							6	81	
TX> South	81	5	1	2	4	*	3			80	5
WI	5									100	
1979	169	5	*	1	2	*	2	1	2	84	2
1978	422	3					12			84	
1977	756				1		3			95	

NORTH DAKOTA - District> County= oat stem rust prevalence/severity on oat [milk to dough] week of August 13: SE> La Moure, Logan, SC> Burleigh, and EC> Barnes= 50-100%/trace to 10%, and C> Stutsman= 5%/trace. (V.L. Jons).

WISCONSIN - Oat stem rust severity very limited in 1979. Found in 8 of 70 fields in 5 of 20 counties. Half as prevalent as in 1978 and mostly in southwestern counties. District> County= average percent prevalence (100 plants per field)/severity (average plant damage estimate for field) in 70 fields surveyed during 1979 oat disease survey: NC> Marathon= 0%/0%, Clark= 0%/0%, EC> Fond du Lac= 0%/0%, Manitowoc= 0%/0%, Kewaunee= 0%/0%, Brown= 0%/0%, Outagamie= 0%/0%, Sheboygan= 0%/0%, Calumet= 0%/0%, SC> Dodge= 1%/1%, Grant= 1%/1%, Dane= 6%/1%, Green= 6%/15%, WC> St. Croix= 0%/0%, Pierce= 0%/0%, Dunn= 0%/0%, NW> Chippewa= 0%/0%, Barron= 0%/0%, NE> Shawano= 0%/0%, and SW> Lafayette= 1%/1%. Average for State 1%/1%. (O.L. Lovett).

RYE STEM RUST (Puccinia graminis f.sp. secalis) trace in nurseries and fields throughout United States, August 16-22. Races TNM and TLM identified from collections in southern MINNESOTA. (A.P. Roelfs, D.L. Long).

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) lightest in recent years throughout United States. Scarcity of rust predicted in April due to reduced overwintering in south TEXAS and to absence of rust in central and north-central Texas. Majority of collections received at Cereal Rust Laboratory made in plots of known stem rust susceptible cultivars. For example, rust reached 30% severity [mid-dough] in susceptible plot at Langdon, NORTH DAKOTA. In fall of 1978, plots of a susceptible cultivar were planted throughout the South.

Stem rust overwintered in a few of these plots in southern Texas, northeastern LOUISIANA, and south-central GEORGIA. Majority of collections from commercial winter wheat made in ALABAMA, KANSAS, MICHIGAN, SOUTH DAKOTA, and WISCONSIN. No new hazardous virulences detected in 1979 and thus, predominant cultivars of durum, hard red spring, northern soft red winter, and northern hard red winter wheats remained resistant. Stem rust insufficient in 1979 to result in significant losses. Race 15-TNM most commonly identified race (32%) of isolates in 1979 but 20% less than in 1977 and 1978. Race QFB replaced TDM as second most commonly identified race. Rank and frequency of races may shift as more collections identified. Following races identified from collections received before August 21. An asterisk (*) represents less than 0.6%. (A.P. Roelfs, D.L. Long).

Area	No. of collections	Percent of isolates of each wheat stem rust race																
		11		15			17		29	32	56	114			151			
		RCM	RCR	TDM	TLM	TNM	HDL	HNL	HJC	RJC	MBC	RKQ	RPQ	RTQ	QCB	QFB	QSH	
AL	4	70							30									
FL	1						33	66										
GA	6														6	94		
IA	2					100												
KS	11					59				4	4	18				11	4	
LA	2														100			
MN	4					58										42		
NB	1					100												
ND	3					100												
OK	4			27	18	18	9										27	
SD	3		29			14					14	14					29	
TX> S	11					5	5		17				5	17		50		
TX> N	5	21			14		21									7	36	
WI	2					80			20									
1979	59	7	1	2	3	32	4	1	5	1	1	4	1	2	5	23	8	
1978	320		*	13	*	57	1		*		1	2	1	4	2	5	11	
1977	445		1	7	1	53	*				3	3	1		5	6	17	

For other small grain rusts, see p. 638-640.

INSECTS

GRASSHOPPERS - NEVADA - Melanoplus sanguinipes adults 8+ per 0.8 sq m in areas below, week ending August 10 (K. Kail):

District> County	Locality	Rangeland Ha	Cropland Ha	Cropland Hosts
NE> Elko	Lee	647.5	72.8	alfalfa
	Metropolis	1,295	259	alfalfa/ grain
W> Humboldt	McDermitt	1,214		
	Pumpernickel Valley	910.5		
Total		4,067.0	332	

NEW MEXICO - District> County= Grasshopper status week ending August 10: NW> Bernalillo= 1-11 per 25 sweeps of alfalfa in Albuquerque South Valley area, Sandoval= very damaging to tree foliage in tree nurseries, greenhouses, and orchards, and Santa Fe= damage heavy to home gardens, nurseries, and greenhouses in Santa Fe area. (C. Heninger).

GYPSY MOTH (Lymantria dispar) - MAINE - Populations heavy and healthy in most areas infested this season, egg masses small but heavy here and in much of surrounding area. Egg laying should be complete. (A. Gall).

DETECTION

NEW STATE RECORDS

DISEASES

SUGARCANE RUST (Puccinia melanocephala) - TEXAS - Willacy County (p. 623); LOUISIANA - Iberia Parish (p. 624).

NEW COUNTY AND PARISH RECORDS

DISEASES

SUGARCANE RUST (Puccinia melanocephala) - LOUISIANA - See p. 624.

INSECTS

A DIASPIDID SCALE (Quadraspidiotus taxodii) - FLORIDA - Lake. (p. 638).

FERN SCALE (Pinnaspis aspidistrae) - FLORIDA - Jackson. (p. 637).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - INDIANA - Perry, Spencer, Vanderburgh, and Warrick. (p. 626-627).

A WHITEFRINGED BEETLE (Graphognathus peregrinus) - SOUTH CAROLINA - Berkeley. (p. 632).

LIGHT TRAP COLLECTIONS

	Temperature C.	Precipitation (mm)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt-marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mandüca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellow-striped armyworm)	Trichoplusia ni (cabbage looper)	Crops
FLORIDA																								
Gainesville 8/16-22			BL					18		4								1	2	5	2			
MISSISSIPPI																								
Stoneville 8/17-23	17-34	22	2BL	12				12	4	286					3		2	63	2	128	37	184		
OHIO (Counties)																								
Heron 8/16-22			BL													13		3				1		
Wayne 8/16-22			3BL	11												235		9				2		
WEST VIRGINIA (Counties)																								
Monroe 8/20			BL	4														8						
Randolph 8/22			BL	3						1								5						
WISCONSIN																								
Lancaster 8/16-22			BL							0						28	1	9						
Mazomanie 8/16-22			BL	2						0						306	1	4						

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Coniothyrium dracaenae Stevens & Weedon a fungus Det. R. Hashimoto	imperfect	on leaves of Dracaena plants from cargo	Guatemala	Los Angeles	CA
Puccinia tillandsiae Cumm. & Pollack a rust Det. F. Matthews	telial	on leaves of Tillandsia plants from baggage	El Salvador	Miami	FL
Septoria sp. a fungus Det. R. Hashimoto	imperfect	on leaves of Sansevieria plants from cargo	Guatemala	Los Angeles	CA
Sphenospora mera Cummins a rust Det. R. Hashimoto	uredial	on leaves of Oncidium plants from cargo	Peru	Los Angeles	CA
Diaprepes abbreviatus (Linnaeus) West Indian sugarcane root borer Det. C.E. Miller	adult	on leaves of Dracaena plants from cargo	Puerto Rico	San Juan	FL
Maruca testulalis (Geyer) bean pod borer Det. R.K. Kunishi	larval	with Sesbania cut flowers from baggage	Honolulu	Hawaii	TX
Orthotomicus suturalis (Gyllenhal) a scolytid beetle Det. D.M. Anderson	adult	in dunnage	West Germany	Charleston	--
Lamellaxis sp. a subulinid snail Det. R. Munkittrick	adult	on logs	Africa	Jacksonville	FL

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

UNITED STATES DEPARTMENT OF AGRICULTURE
Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

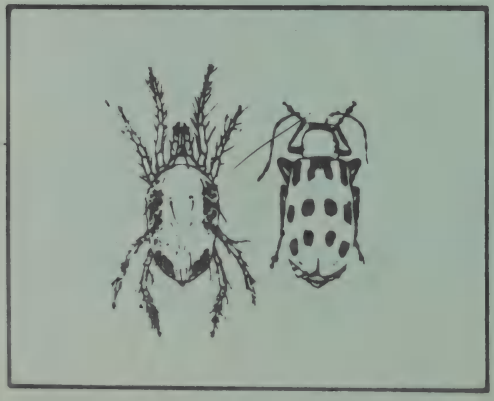
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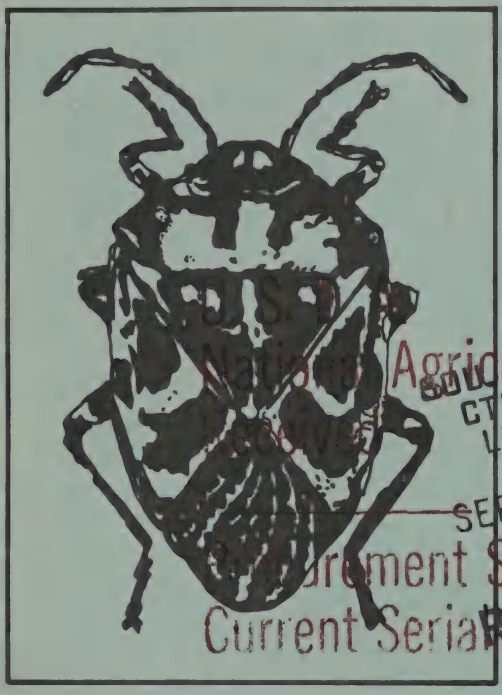
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Animal and Plant Health Inspection Service

September 7, 1979

Vol. 4

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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR
New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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September 7, 1979 4(33):645-666

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

SUMMER BLACK STEM continues as most widespread alfalfa disease in central Kansas and most prevalent alfalfa disease in eastern area. (p. 653).

MEXICAN BEAN BEETLE populations and damage at threshold level in some soybean fields in Eastern Shore area of Maryland. (p. 657).

Detection

For new county records see page 663.

First Occurrence of the Season

ROUGH SPOT on sorghum in Kansas.

Reports in this issue are for the week ending August 31 unless otherwise indicated.

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DISEASES

COMMON MAIZE RUST (Puccinia sorghi) - NEBRASKA - Area> prevalence/severity on corn [dough to beginning dent] week ending August 25: Eastern one-half of State> trace to 1%/trace to 5%. (S. Poe). ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, August 14-24: NE> De Kalb= 100%/trace [dough], Kendall= 100%/2% [dough], Grundy= 100%/1% [dough], E> Livingston= 100%/1% [dent], Ford= 100%/trace to 1% [dent], ESE> Lawrence= 100%/trace to 1% [dough], and Crawford= 100%/trace to 1% [dough]. (E.G. Jordan). MARYLAND - Area> status on grain corn: Statewide> evident in all fields, however, significant yield reduction not expected. Most evident where no-till planting used. (J.L. Hellman).

SOUTHERN RUST (Puccinia polysora) - ILLINOIS - District> County= prevalence/severity on corn [dough] leaves in 1 commercial field each, August 14-24: ESE> Lawrence= 100%/2-4% and Crawford= 100%/1-3%. (E.G. Jordan).

SORGHUM LEAF RUST (Puccinia purpurea) - KANSAS - District> County= status on sorghum week ending August 24: C> Marion= trace in 1 field. Current survey on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Fields infected	Fields surveyed
EC> Lyon	trace	trace	1	1
EC> Linn	trace	trace	1	2
SE> Neosho	100	10	1	1
SE> Wilson	25-80	10-25	2	2
SE> Montgomery	30	10-25	1	1

SOUTHERN LEAF BLIGHT (Bipolaris maydis) - ILLINOIS - District> County= prevalence/severity on corn [host stage] leaves in 1 commercial field each, August 14-24: E> Livingston= trace/trace [dent], Ford= trace/trace [dent], ESE> Lawrence= 100%/3-5% [dough], Crawford= 100%/1-3% [dough], and SE> Pope= 100%/3-5% [dent]. (E.G. Jordan). MARYLAND - Area> status on grain corn: Statewide> evident in all fields, however, significant yield reduction not expected. Most evident where no-till planting used. (J.L. Hellman).

COMMON SMUT (Ustilago maydis) - NEBRASKA - District> prevalence on cornstalks and on ears [dough to beginning dent] week ending August 25: E> 5% and trace to 2%, NE> 5% and 1%, C> trace and trace, S> 6% and 1%, SE> 3% and trace to 2%. (S. Poe). ILLINOIS - District> County= prevalence on cornstalks [host stage] in 1 commercial field each, August 14-24: NW> Putnam= 2% [dough], NE> De Kalb= 1% [dough], Kendall= 4% [dough], Grundy= 2% [dough], E> Livingston= 2% [dent], Ford= 3% [dent], ESE> Lawrence= 1% [dough], and Crawford= 3% [dough]. (E.G. Jordan).

GEORGIA - Area> average common smut prevalence per 50 corn [mature] plants in number of sites (s): SW> 4% in 1s (K.L. Davenport), SE> 4.7% in 3s (W.M. Fortson, K.L. Davenport), and N> 2% in 1s. (E.W. Elder).

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus (Bipolaris) carbonum) - ILLINOIS - District> County= asexual prevalence/severity on corn [host stage] leaves in 1 commercial field each, August 14-24: ESE> Lawrence= 100%/1% [dough], Crawford= trace/trace [dough], NW> Putnam= 50%/trace to 1% [dough], NE> De Kalb= 70%/1% [dough], Kendall= trace/trace [dough], Grundy= 100%/1% [dough], E> Livingston= 100%/1-2% [dent], and Ford= 100%/trace to 1% [dent]. (E.G. Jordan).

NORTHERN LEAF BLIGHT (Setosphaeria (Exserohilum) turcica) - ILLINOIS - District> County= asexual prevalence/severity on corn [dough] leaves in 1 commercial field each, August 14-24: E> Kankakee= trace/trace and NE> Grundy= trace/trace. (E.G. Jordan). WISCONSIN - District> County= asexual prevalence in seed corn and field corn, respectively, week ending August 17: SC> Columbia and Rock= less than 10% in several fields, some lesions on scattered plants. (O.L. Lovett).

SORGHUM DOWNY MILDEW (Peronosclerospora sorghi) - KANSAS - Surveys on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage	Fields infected	Fields surveyed
SC> Reno	100	moderate	heading	1	1
SC> Pawnee	trace to 100	light to very heavy	flower	2	3
SC> Edwards	5	light	boot to flower	1	2

CORN BROWN SPOT (Physoderma maydis) - NEBRASKA - Presently most widespread corn disease. District> prevalence in sheaths and on leaves [dough to beginning dent] week ending August 25: E> 40% and 0%, NE> 30% and 1%, C> 90% and 0%, S> 95% and 0-1%, and SE> 95% and trace. (S. Poe).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - ILLINOIS - District> County= prevalence/severity on corn [host stage] in 1 commercial field each, August 14-24: E> Livingston= 100%/trace to 1% [dent], Ford= 100%/1-2% [dent], NW> Putnam= 100%/1% [dough], NE> De Kalb= 50%/trace to 1% [dough], Kendall= trace/trace [dough], Grundy= 50%/trace [dough], ESE> Lawrence= 100%/2-3% [dough], and Crawford= 100%/3-4% [dough]. (E.G. Jordan). MARYLAND - Area> status on grain corn: Statewide> evident in all fields, however, significant yield reduction not expected. Most evident where no-till planting used. (J.L. Hellman).

GIBBERELLA STALK ROT (Gibberella (Fusarium) roseum f.sp. cerealis) - KANSAS - Area> status: SE> becoming more prevalent as corn nears maturity. No lodging reported. (T. Sim, IV).

District> County	Prevalence (%) in infected fields	Fields infected	Fields surveyed
SE> Allen	32	1	5
SE> Crawford	4 and 4	2	5
SE> Labette	4	1	5
SE> Montgomery	-	0	5
SE> Neosho	4 and 4	2	5

DIPLODIA STALK ROT (Diplodia maydis) - KANSAS - Surveys on corn, no lodging reported (T. Sim, IV).

District> County	Prevalence (%) in infected fields	Fields infected	Fields surveyed
SE> Allen	-	0	5
SE> Crawford	-	0	5
SE> Labette	4	1	5
SE> Montgomery	-	0	5
SE> Neosho	-	0	5

CHARCOAL ROT (Macrophomina phaseolina) - KANSAS - Most prevalent stalk rot in southeastern area, corn nearing maturity, no lodging reported. (T. Sim, IV).

District> County	Prevalence (%) in infected fields	Fields infected	Fields surveyed
SE> Allen	4, 28, and 32	3	5
SE> Crawford	4	1	5
SE> Labette	8, 16, 8, and 4	4	5
SE> Montgomery	4, 12, 20, 52, and 32	5	5
SE> Neosho	8, 8, and 4	3	5

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - District> County= prevalence on sorghum week ending August 24: C> McPherson= 30% in 1 field. KANSAS - Currently, most common sorghum [soft dough to hard dough] disease in parts of east-central and southeastern areas. (T. Sim, IV).

District> County	Prevalence (%)	District> County	Prevalence (%)
EC> Osage	100	SE> Allen	100
EC> Coffey	100	SE> Wilson	100
EC> Linn	100	SE> Montgomery	100
SE> Woodson	10	SE> Crawford	100

ROUGH SPOT (Ascochyta sorghina) - KANSAS - First report of season. District> County= status on sorghum week ending August 24: SC> Barber= trace in forage field. (T. Sim, IV).

HOLCUS SPOT (Pseudomonas syringae) - KANSAS - District> County= prevalence on sorghum week ending August 24: C> McPherson= trace. Current status on sorghum: SE> Woodson= trace in 1 field. (T. Sim, IV).

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Surveys on sorghum week ending August 24 (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage	Fields infected	Fields surveyed
C> Marion	trace	-	boot to flower	1	2
C> Rice	trace	-	flower	1	2
C> Barton	trace	-	flower	1	1
SC> Harvey	trace to 30	light	flower to dough	2	2
SC> Edwards	trace	-	boot to flower	2	2
SC> Kiowa	trace	-	boot	1	1

Current bacterial stripe survey:

District> County	Prevalence (%)	District> County	Prevalence (%)
EC> Coffey	trace	SE> Crawford	80
EC> Linn	trace	SE> Bourbon	80
SE> Neosho	trace	NE> Pottawatomie	40

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - Most widespread sorghum disease in south-central area week ending August 24. District> County= prevalence on sorghum: C> Marion, Rice, SC> Pawnee, Stafford, Pratt, Edwards, and Harper= trace. Current survey in single sorghum fields (T. Sim, IV):

District> County	Prevalence (%)	District> County	Prevalence (%)
SE> Woodson	30	SE> Cherokee	30
SE> Allen	80	SE> Bourbon	10
SE> Neosho	trace	NE> Pottawatomie	5

STEWART'S WILT (Erwinia stewartii) - ILLINOIS - District> County= prevalence/severity on corn [dough] leaves in 1 commercial field each, August 14-24: ESE> Lawrence= 100%/trace to 1% and Crawford= 100%/1%. (E.G. Jordan).

MAIZE DWARF MOSAIC VIRUS - KANSAS - Continued widespread on sorghum across south-central area week ending August 24. Survey on sorghum, red leaf indicated by asterisk (T. Sim, IV):

District> County	Prevalence (%)	Host stage	Fields infected	Fields surveyed
C> Marion	trace	boot to flower	1	2
SC> Harvey	1	flower to dough	1	2
C> Rice	1-2	flower	2	2
SC> Pawnee	trace	flower	1	3
SC> Harper	1	boot	1	1

Kansas - District> County= maize dwarf mosaic virus status on sorghum: EC> Coffey= trace in 1 field. (T. Sim, IV). WISCONSIN - District> County= status week ending August 17: SC> Dane, Dodge, EC> Fond du Lac, Winnebago, Calumet, Outagamie, Manitowoc, and Sheboygan= found in late sweet corn planted after June 15. (O.L. Lovett).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - WISCONSIN - Egg laying by second adult flight heavy in late sweet corn week ending August 17. Treatments in sweet corn and green beans underway in south-central and central counties. District> County= status on sweet corn week ending August 17: SC> Rock, Dane, Columbia, Dodge, and SE> Walworth= eggs on 10-30% of plants in fields with fresh silks, cool temperatures decreased adult activity; C> Portage and SC> Rock= numbers of pupae and empty pupal cases about equal in dissected stalks, adult emergence about 50% complete, no larvae will be entering pupal stage this season due to short day length and cooler temperatures; SE> Walworth= 1st instar larvae of second generation present; and EC> Outagamie= mostly 3rd or 4th instar larvae of first generation. Cool temperatures slowed borer development,

light second generation European corn borer activity likely east or north of line from SE> Milwaukee County at Milwaukee to EC> Winnebago County at Oshkosh to C> Portage County at Stevens Point to NW> Polk County at Saint Croix Falls. (O.L. Lovett).

GEORGIA - Area> European corn borer larvae (average if given) per 50 corn [host stage] plants in number of sites (s) week of August 27: SW> 5th instars 6 [mature] in 1s (W.F. Wood) and SE> 3rd to 5th instars 4-15 (9.5) [mature] in 2s (W.F. Wood, W.M. Fortson). MARYLAND - Area> trap catches: Lower Shore> 10-20, Central Shore> 20-30, Upper Shore> 30-40, and Central Maryland> 20-30. Status: Eastern Shore> second brood decreased but third expected to follow shortly without much decrease in adult activity and Statewide> damaged ears and unsprayed sweet corn ranged 2-30%. (J.L. Hellman).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - NEW MEXICO - District> County= status on corn week ending August 24: NE> Union= majority of larvae pupated, 80% of pupae matured, and adults emerged in fields. (G. Nielsen). OKLAHOMA - District> County= status on corn: Panhandle> Texas= eggs few (newly laid and red line) and larvae up to 13 mm long. (D.C. Arnold).

CORN EARWORM (Heliothis zea) - IDAHO - District> County= status on corn: SW> Canyon= populations considerably below normal, none found in 240 ears of processing corn at Parma. (D.R. Scott, G.W. Bishop). UTAH - District> County= status: N> Weber and C> Utah= infestation moderate on canning corn. (B. Duncan). NEW MEXICO - District> County= larval status on corn week ending August 24: NE> Union= very light in fields. (G. Nielsen). OKLAHOMA - District> County= status: NC> Kay and NE> Osage= present in 5% of grain sorghum heads. (D.C. Arnold). TENNESSEE - District> County= status on corn week ending August 24: Cumberland Plateau> Cumberland= infestation 60%, still infests most parts of State, most of early corn and some late-planted corn hardened off, earworm no longer problem. (G.R. Thackson et al.).

MARYLAND - Area> corn earworm status: Eastern Shore> adult activity increased abruptly during past period, all traps averaged 20-30+ per night, feeding damage to sweet corn light, spray programs underway. (J.L. Hellman). NEW HAMPSHIRE - County= status on corn: Rockingham= first adults collected in blacklight traps August 4-6 at Stratham and August 6-8 at Derry. Populations increased to 2 per trap per night at Derry and remained at 1 per trap per night at Stratham to August 20. Strafford= no adults collected. (J.F. Burger).

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - District> County= infestations on late sorghum week ending August 24: C> Grady= 20-30% and NE> Delaware= 5-10%. Current status: SW> Caddo and WC> Washita= moderate to heavy in terminals of late-planted grain and forage sorghums. (D.C. Arnold). TENNESSEE - District> County= status on corn week ending August 24: Central Basin> Williamson= controls applied, East Tennessee> Hawkins= treatment of 34-ha and 16-ha fields completed, infestation levels 50+%. Cumberland Plateau> Cumberland= infestation nearly 100% in late corn, some growers applied controls (H.Y. Beeler et al.).

MISSISSIPPI - Area> fall armyworm status: Statewide> larvae continued to increase on grain sorghum and pastures mostly in southern area. Limited controls applied. (R. Anderson). FLORIDA - District> County= status on corn: C> Alachua= averaged 3-4 per plant, attempted to chew into ears of sweet corn [starting to silk], involved 142 ha at Alachua. Treatment increased from twice a week to everyday on older plantings coming into silking. (R.B. Baker).

CORN ROOTWORMS (Diabrotica spp.) - WISCONSIN - Moderate in field corn, seldom 2+ per plant in southern counties week ending August 17. Populations relatively heavy in late sweet corn, frequently 5 per plant with considerable leaf feeding by WESTERN CORN ROOTWORM (D. virgifera) and light silk damage by NORTHERN CORN ROOTWORM (D. longicornis). Numbers may increase sharply in late sweet corn as fewer fields with green silks available. (O.L. Lovett).

SORGHUM MIDGE (Contarinia sorghicola) - OKLAHOMA - District> County= adults on sorghum [bloom] in 1 field each, week ending August 24: SC> Carter= 2-6 per head and Marshall= light. (D.C. Arnold).

GREENBUG (Schizaphis graminum) - OKLAHOMA - District> County= status on grain sorghum week ending August 24: NC> Kay= infestations moderate. Current status on sorghum: Panhandle> Texas= infestations virtually nil due to parasitism by Lysiphlebus testaceipes (an aphidiid wasp). (D.C. Arnold). KANSAS - Populations decreased in nearly all fields checked, parasitic wasps and predators usually heavy, several fields showed significant old damage especially on scattered plants. District> County= average per sorghum [bloom to dough] plant in number of fields (f): EC> Geary= trace in 1f, C> Dickinson= 0-5 in 2f, Lincoln= trace to 2,000 in 3f, Russell= 0-200 in 3f, NC> Ottawa= 0-150 in 4f, Mitchell= trace to 720 in 4f, Cloud= 0 in 2f, and Osborne= 2,400 in 1f. (K.O. Bell, Jr.). Status on sorghum: C> Ellis= recently decreased sharply due to natural enemies, flights heavy since about August 13, decreased according to catches on "sticky traps", seedling wheat in experimental plots near Hays treated repeatedly to prevent serious damage and WC> Gove= still heavy in some fields where much treating done recently. (T.L. Harvey).

CORN LEAF APHID (Rhopalosiphum maidis) - WISCONSIN - Infestations continued on high percentage of corn plants in nearly all fields, in most fields colonies of 500+ on fewer than 20% of plants week ending August 17. (O.L. Lovett).

CHINCH BUG (Blissus leucopterus leucopterus) - OKLAHOMA - District> County= counts per plant on late-planted field corn: SC> Bryan= up to 100. (D.C. Arnold). KANSAS - Few second generation reached adults in areas surveyed, mostly nymphs and small nymphs still common behind leaf sheaths. Many larger nymphs moved from behind leaf sheaths to more visible positions on stems and sometimes leaves. Heavy populations generally found in areas within fields where stands thinnest or in well-drained upland fields. District> County= status: NC> Osborne and C> Russell= light to moderate in some sorghum [boot to dough], Dickinson, Lincoln, NC> Ottawa, Mitchell, and Cloud= populations usually light on sorghum, sometimes moderate to heavy, heaviest in Ottawa and Cloud Counties where heavy numbers of large nymphs sometimes noted on lower stems and leaves, NE> Pottawatomie= scarce in 3 sorghum [mature] fields, and C> Dickinson and NC> Cloud= infestations heavy on lower stems and on roots of replanted sorghum (stunted). (K.O. Bell, Jr.).

BANKS GRASS MITE (Oligonychus pratensis) - OKLAHOMA - District> County= status on corn week ending August 24: SC> Caddo= very heavy in 1 field. (D.C. Arnold).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - UTAH - District> County= status of this species and BANKS GRASS MITE (Oligonychus pratensis) on corn: N> Box Elder and E> Carbon= some fields required controls. (G.F. Knowlton).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - Area> status week ending August 24: SC> still most widespread alfalfa disease. Alfalfa making regrowth from third cutting.

District> County	Prevalence (%)	Host height (cm)	Fields infected	Fields surveyed
C> Marion	trace to 50	30-46	2	2
C> McPherson	trace	46-61	2	2
C> Barton	20	61	1	1
SC> Harvey	trace	38	1	1
SC> Stafford	5	38	1	1
SC> Kingman	trace	25	1	1
SC> Sumner	trace	25	1	1

Kansas - Currently, continued most prevalent alfalfa disease in eastern area. Most of third cutting taken off in eastern one-third of State. Survey on alfalfa, asterisk indicates defoliation (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host height (cm)	Fields infected	Fields surveyed
SE> Woodson	10-15	moderate	30-36	2	6
SE> Bourbon	100	moderate*	71	1	1
NE> Pottawatomie	100	moderate*	30	1	1

ALFALFA RUST (Uromyces striatus var. medicaginis) - KANSAS - District> County= prevalence on alfalfa week ending August 24: C> Marion= trace in 1 field and 100% in second field. (T. Sim, IV).

ALFALFA BACTERIAL LEAF SPOT (Xanthomonas alfalfae) - KANSAS - District> County= status on alfalfa: SC> Kingman= prevalence 10% in 1 field. (T. Sim, IV).

INSECTS

BEET ARMYWORM (Spodoptera exigua) - NEVADA - District> County= status of this species and ALFALFA CATERPILLAR (Colias eurytheme) on hay alfalfa: W> Churchill= up to one-half grown larvae of mostly the former averaged 15 per sweep on 243 ha at Fallon with damage becoming evident. (R. Lauderdale). ARIZONA - District> County= status per 100 sweeps of alfalfa week ending August 24: C> Pinal= larvae 4 and Maricopa= larvae 60-100 and adults 10. (T. Svoboda et al.).

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= counts per 25 sweeps of alfalfa week ending August 24: NE> Union= larva 1 and adults 2 in Sedan area. Current status: NE> Torrance= larvae 0-22 in McIntosh area. (C. Heninger).

ALFALFA BLOTCH LEAFMINER (Agromyza frontella) - NEW HAMPSHIRE - Populations this season remained relatively light in most areas and not expected to cause problems during rest of season. County= status on alfalfa week of August 22: Strafford= infestations light, averaged 3-10 mines per plant at Madbury. (J.F. Burger).

PEA APHID (Acyrthosiphon pisum) - NEW MEXICO - District> County= counts per 25 sweeps of alfalfa week ending August 24: NE> Union= 5-50 in Sedan area. Currently: NE> Torrance= nymphs and adults 5-50. (C. Heninger).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa week ending August 24: C> Pinal= 120, Maricopa= 200-260, and SW> Yuma= 90. (T. Svoboda et al.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending August 24: C> Maricopa= 160-250 and 60-120, Pinal= 16 and 26, and SW> Yuma= 20-60 and 60-150. (T. Svoboda et al.).

GRASSHOPPERS - WISCONSIN - Heavy populations of mostly Melanoplus femurrubrum in all areas of State week ending August 17. Visibility of grasshoppers will increase as nymphs mature and move from roadsides and ditchbanks to forage, corn, soybeans, and tobacco. Controls may be necessary on margins of these crops. (O.L. Lovett). NEW HAMPSHIRE - Populations increased rapidly throughout State and some feeding damage reported on forage legumes such as clover and alfalfa, as well as other cover crops. (J.F. Burger).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - KANSAS - District> County= status on soybeans week ending August 24: NE> Atchison, EC> Johnson, and SE> Crawford= trace in several fields. Current status of this disease and SOYBEAN STEM CANKER (Diaporthe phaseolorum var. caulivora): EC> Franklin= trace in 1 field. (T. Sim, IV). NEBRASKA - District> prevalence on soybeans [rapid pod growth] week ending August 25: E> trace to 2%, NE> 1-3%, C> 0%, and S> and SE> trace. (S. Poe).

SOYBEAN POD AND STEM BLIGHT (Diaporthe phaseolorum var. sojae) - ILLINOIS - District> County= prevalence on soybean [seed full size] pods on variety in monitoring plots, August 14-24: E> Champaign= trace on Corsoy, ESE> Fayette= trace on Beeson, SW> St. Clair= trace on Woodworth, and SE> Pope= trace on Amsoy. (E.G. Jordan).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - KANSAS - Common in parts of east-central and southeastern areas. Prevalence vary widely from field to field. (T. Sim, IV).

District> County	Prevalence (%)	District> County	Prevalence (%)
EC> Coffey	trace to 10	SE> Wilson	trace
EC> Linn	trace	SE> Labette	90
EC> Anderson	trace	SE> Cherokee	trace to 100
SE> Woodson	trace	SE> Crawford	trace
SE> Allen	trace	SE> Bourbon	50

SOYBEAN BROWN SPOT (Septoria glycines) - NEBRASKA - District> prevalence/severity on soybeans [rapid pod growth] week ending August 25: E> 2%/trace, NE> trace/trace, C> 10%/1%, S> 10%/10%, and SE> 10%/5%. (S. Poe). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, August 14-24: E> Champaign= 100%/7% [seed full size] on Beeson, ESE> Fayette= 100%/10% [seed development] on Clark, SW> St. Clair=

soybean brown spot 100%/18% [seed full size] on Corsoy, Jackson= 100%/5% [seed full size] on Amsoy 71, and SE> Pope= 100%/4% [seed development] on Essex. (E.G. Jordan).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - KANSAS - Survey in single soybean fields week ending August 24 (T. Sim, IV):

District> County	Prevalence (%)
SC> Harvey	trace
SC> Pawnee	40
SC> Stafford	30

ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, August 14-24: E> Champaign= 100%/7% [seed development] on Clark, ESE> Fayette= 100%/8% [seed full size] on Williams, SW> St. Clair= 100%/5% [seed full size] on Woodworth, Jackson= 100%/4% [seed full size] on Cutler 71, and SE> Pope= 100%/4% [seed full size] on Elf. (E.G. Jordan).

CHARCOAL ROT (Macrophomina phaseolina) - KANSAS - District> County= status on soybeans week ending August 24: NE> Jefferson= trace in 1 field. Currently: EC> Osage= trace in 1 field. (T. Sim, IV).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Survey on soybeans week ending August 24 (T. Sim, IV):

District> County	Prevalence (%)	Fields infected	Fields surveyed
C> Marion	trace	1	1
C> McPherson	trace	1	1
SC> Harvey	30	1	2
SC> Edwards	trace to 100	2	2

Currently more prevalent in southeastern area.

District> County	Prevalence (%)	District> County	Prevalence (%)
SE> Allen	100	SE> Labette	20-100
SE> Neosho	100	SE> Cherokee	trace to 100
SE> Crawford	100	EC> Linn	100
SE> Bourbon	80	EC> Anderson	trace to 50
SE> Wilson	10	EC> Franklin	100
SE> Montgomery	trace to 10		

NEBRASKA - District> soybean bacterial blight prevalence/severity on soybeans [rapid pod growth] week ending August 25: E> 10-30%/5%, NE> 15%/5%, C> 20%/5%, S> 25%/2%, and SE> 20%/5%. (S. Poe). ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on variety in 1 monitoring plot each, August 14-24: E> Champaign= 100%/2% [pod 2 cm] on Essex, ESE> Fayette= 100%/4% [seed development] on Franklin, SW> St. Clair= 100%/2% [seed development] on Essex, Jackson= 100%/3% [seed full size] on Amsoy, and SE> Pope= 100%/1% [seed full size] on Amsoy 71. (E.G. Jordan).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - KANSAS - Widely scattered on soybeans over south-central area week ending August 24. (T. Sim, IV).

District> County	Prevalence (%)	Fields infected	Fields surveyed
C> Marion	100	1	1
C> McPherson	trace	2	2
SC> Pawnee	30	1	1
SC> Stafford	trace	1	1
SC> Sumner	trace	1	1

Currently more prevalent in east-central area.

District> County	Prevalence (%)	District> County	Prevalence (%)
EC> Lyon	100	SE> Woodson	30
EC> Osage	100	SE> Allen	100
EC> Coffey	10	SE> Wilson	10

ILLINOIS - District> County= prevalence/severity on soybeans [seed full size] on variety in 1 monitoring plot each, August 14-24: ESE> Fayette= 100%/4% on Corsoy, SW> St. Clair= 100%/3% on Beeson, Jackson= 100%/3% on Clark, and Pope= 100%/2% on Amsoy 71. (E.G. Jordan).

SOUTHERN BLIGHT (Pellicularia (Sclerotium) rolfsii) - GEORGIA - Area> average asexual prevalence/severity per 1.4 row m of soybeans [host stage] in number of sites (s): SW> 20%/10% [pod 2 cm to seed development] in 2s (G. Galbreath) and SE> 5%/10% [seed development] in 1s (W.M. Fortson).

SOYBEAN MOSAIC VIRUS - NEBRASKA - District> County= prevalence on soybeans [rapid pod growth] week ending August 25: C> Hall= trace to 2%. (S. Poe).

SOYBEAN CYST NEMATODE (Heterodera glycines) - TENNESSEE - Damage symptoms readily apparent on soybeans in many western and middle areas, many fields have large areas of dead, stunted and yellow plants in many fields. District> County= newly infested and noninfested fields week ending August 24: Cumberland Plateau> Bledsoe= 2 and 7, Sequatchie= no data and 12, Coffee= 7 and 38, Central Basin> Giles= 3 and 8, Lincoln= 13 and 43, Rutherford= 2 and 28, Sumner= no data and 8, Williamson= 7 and 23, and Western Rim> Lawrence= 13 and 35. (Harrison).

INSECTS

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= infestations on soybeans: SE> Le Flore= heavy in northern area, EC> Muskogee, and NE> Wagoner= very light. (D.C. Arnold). GEORGIA - Area> larvae (average if given) per 4.6 row m of soybeans [host stage] in number of sites (s): SW> 2nd to 3rd instars 2-9 (5.7) [pod 0.5 cm to seed development] in 4s (G. Galbreath et al.), SE> 1st to 5th instars 1-40 (12.2) [pod 0.5 cm to seed development] in 4s (W.M. Fortson, W.F. Wood), and N> 2nd instar 1 [pod 2 cm] in 1s (E.W. Elder).

VIRGINIA - District> County= status on soybeans: SE> Independent City of Suffolk= adult flights very heavy at Holland and first field on Northern Neck treated, and E> Westmoreland= first infestation found August 24, no more than

1-5 per 9.1 row m. Should weather turn dry, time remains for damaging corn earworm brood in September. (W.A. Allen).

BEET ARMYWORM (Spodoptera exigua) - GEORGIA - Area> larvae per 4.6 row m of soybeans [pod 2 cm]: SW> 2nd instar 1 in 1 site. (G. Galbreath).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status of this species and CORN EARWORM (Heliothis zea) on soybeans August 24: NW> Jackson= continued to infest everywhere in area except Malone area and northward, not every field needed treatment, especially those surrounded by wooded areas or isolated from other fields. (Arnold). Current A. gemmatalis status on soybeans: C> Alachua= larvae averaged 3-4 per 0.3 row m on 50% of 243 ha scattered in western area, treatments required. (R.B. Baker).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= status on soybeans week ending August 24: EC> Muskogee= averaged about 1 per 0.3 row m in fields surveyed. (D.C. Arnold). MISSISSIPPI - District> County= status on soybeans [pod filled]: EC> Winston, Kemper, Noxubee, and Oktibbeha= larval populations slowly increased, 0-6 per 0.3 row m. Heaviest percent of defoliation about 10%. (R. Anderson). GEORGIA - Area> larvae (average if given) per 4.6 row m of soybeans [host stage] in number of sites (s): SW> 1st to 4th instar 2-4 (3) [pod 0.5 cm to seed development] in 4s (W.T. Glover, W.F. Wood), SE> 1st to 3rd instar 1-31 (8) [pod 0.5 cm to seed development] in 6s (W.F. Wood et al.), C> 4th instar 5 [seed development] in 1s (W.J. Roberts), and N> 1st to 2nd instar 2-7 (4.5) [pod 2 cm] in 2s. (E.W. Elder).

SOYBEAN LOOPER (Pseudoplusia includens) - FLORIDA - District> County= status on soybeans: C> Alachua= populations averaged 2-3 per 0.3 row m on 60.7 ha at Alachua and 8.1 ha at Archer, treatments required. (R.B. Baker). GEORGIA - Area> larvae (average) per 4.6 row m of soybeans [host stage] in number of sites (s): SW> 1st to 3rd instar 2-8 (4.3) [pod 0.5 cm to seed development] in 6s (G. Galbreath et al.), and SE> 1st to 3rd instar 1-5 (2.5) [pod 2 cm to seed development] in 6s (W.F. Wood et al.).

MEXICAN BEAN BEETLE (Epilachna varivestis) - VIRGINIA - District> County= status on soybeans week ending August 24: E> Westmoreland= of 93 fields surveyed (578.7 ha) only 4 small connecting fields (8.9 ha) neared economic threshold for defoliation that needed treatment. Defoliation due mainly to this species. Population in this particular area doubled in 5 days to 145 per 9.1 row m with defoliation at 15-20%. Generally, defoliation in surveyed fields ranged mainly 2-6% with some fields 8-12%. Infestations mostly well below threshold levels with isolated fields nearing 8-12%. (N.P. Ptucha).

MARYLAND - District> County= Mexican bean beetle status on soybeans: Eastern Shore> Dorchester, Caroline, Talbot, and NC> Queen Annes= populations and damage reached threshold levels in 30% of fields. Slightly fewer fields at thresholds (15%) in counties east of Dorchester. Western Shore area> no economic problems. Eastern Shore area> third generation underway. All stages of second generation found, most in late larval instars, pupal, and adult. Of 320 fields sampled, 10 treated. More treatments expected in next 2 periods on late-planted soybeans. (J.L. Hellman).

BEAN LEAF BEETLE (Cerotoma trifurcata) - MISSISSIPPI - District> County= adults on soybeans: EC> Winston, Kemper, Noxubee, and Oktibbeha= 1-15 per 25 sweeps. (R. Anderson). GEORGIA - Area> adults per 4.6 row m of soybeans [seed development]: SW> 1 in 1 site. (J.E. Burnett).

GREEN STINK BUG (Acrosternum hilare) - MISSISSIPPI - District> County= status of this species, BROWN STINK BUG (Euschistus servus), and SOUTHERN GREEN STINK BUG (Nezara viridula) on soybeans: EC> Winston, Kemper, Noxubee, and Oktibbeha= increased, 0-5 per 2 row m. (R. Anderson).

PEANUTS

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status of this species and VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) on peanuts August 23-24: NW> Jackson= infested scattered fields, no problems expected if harvested within 10 days. C> Alachua, Levy, Gilchrist, and NE> Columbia= A. gemmatalis populations heavy on 80.9 of 809.4 ha, treatment required. (R.B. Baker).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - OKLAHOMA - District> County= status on peanuts week ending August 24: SC> Marshall= adults common in 1 field, infested plants ranged 1-2%. (D.C. Arnold).

REDNECKED PEANUTWORM (Stegasta bosqueella) - OKLAHOMA - District> County= status on peanuts week ending August 24: SC> Marshall= infested terminals averaged 60% in fields checked. (D.C. Arnold).

POTATO LEAFHOPPER (Empoasca fabae) - OKLAHOMA - District> County= nymphs and adults on peanuts week ending August 24: SW> Caddo= ranged up to 20 per 0.03 row m in 1 field with considerable yellowing. Current status on peanuts: SC> Atoka= 10-15 per 0.3 row m with considerable yellowing and SW> Caddo= light. (D.C. Arnold).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - OKLAHOMA - District> County= counts in number of pheromone traps week ending August 24: SW> Harmon= 16 in 30, Jackson= 1 in 85, Greer, Kiowa, and Tillman= 0 in 61, and WC> Washita= 0 in 20. Current counts: SW> Harmon= 8 in 30 traps, and Jackson, Greer, Kiowa, and Tillman= 0. (D.C. Arnold). MISSISSIPPI - Area> status on cotton: Statewide> continued to cause problems. Delta> populations heaviest in southern and central hill sections. (R. Anderson). TENNESSEE - Area> status on cotton week ending August 24: Southern west Tennessee counties> still below control levels, infestations appear spotty and mostly in proportion to rainfall received over area, 1-4% squares punctured. District> County= damaged squares: Central Basin> Lincoln and Cumberland Plateau> Franklin= 1-2%. (J. Cagle, J. Locke).

BOLLWORMS (Heliothis spp.) - NEW MEXICO - District> County= Bollworm (H. zea) status on cotton: SE> Eddy and Chaves= egg laying light to moderate. (J. Lopez). OKLAHOMA District> County= Heliothis spp. status on cotton week ending August 24: SW> Jackson, Tillman, Kiowa, Greer, and Harmon= eggs 0-20 and larvae 0-5 per 100 terminals, Jackson= damaged squares averaged 20% in untreated cotton. C> Grady= larvae collected from untreated fields: 67% TOBACCO BUDWORM (H. virescens) and 33% bollworm, and Jackson= 19% tobacco budworm and 81% bollworm. Current status per 100 terminals: SW> Greer, Jackson, Kiowa, Tillman, and Harmon= eggs up to 35 and larvae up to 8, C> Grady= eggs averaged 14 and damaged squares averaged 2%, and WC> Washita and Custer= very light. (D.C. Arnold).

MISSISSIPPI - District> County= Heliothis spp. status on cotton: Statewide> numbers continued to vary from area to area. Delta area> eggs up to 100%. EC> Noxubee, Winston, and Kemper= eggs 0-30%. (R. Anderson). TENNESSEE - District> County= BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) status on cotton week ending August 24: Central Basin> Lincoln and Cumberland Plateau> Franklin= eggs 2-10 and damaged terminals 4 per 100 terminals, West Tennessee> eggs and larvae 0-3, eggs on stems in southern tier of counties. (J. Cagle, J. Locke).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Area> status on cotton: S> larvae increased slightly in localized areas, populations heaviest in lush cotton. (R. Anderson).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps week ending August 24: C> Pinal= 9 and 11 with 25-30% of small and large bolls in northern Eloy showing feeding damage. (E. Hall et al.).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - MISSISSIPPI - Area> status on cotton: Statewide> populations increased in large percentage of fields, heavy populations should be controlled to prevent economic loss. (R. Anderson).

TOBACCO

INSECTS

GREEN PEACH APHID (Myzus persicae) - WISCONSIN - District> County= colonies on tobacco week ending August 17: SC> Rock= 100+ on about 20% of plants in 1 field, heaviest population this season. (O.L. Lovett).

GRASSHOPPERS - WISCONSIN - District> County= status on tobacco week ending August 17: SC> Rock= damaged edges of fields, most damage light, expected to increase as nymphs mature. (O.L. Lovett).

MISCELLANEOUS FIELD CROPS

DISEASES

SUNFLOWER RUST (Puccinia helianthi) - NORTH DAKOTA - District> County= prevalence/severity on sunflowers [full blossom to ray petals dropping]: EC> Traill= 50%/trace to 1%, Griggs= 100%/trace to 20%, Steele= 75-100%/trace to 5%, Barnes= 50-80%/trace to 1%, NE> Grand Forks= 50-100%/trace to 20%, Walsh= 80-100%/trace to 25%, Pembina= 80-100%/trace to 10%, Cavalier= 80-100%/trace to 30%, Towner= 75-100%/trace to 5%, Ramsey= 50-100%/trace to 5%, Nelson= 80-100%/trace to 30%, and NC> Benson= 50%/trace. (V.L. Jons).

SUNFLOWER LEAF SPOT (Septoria helianthi) - NORTH DAKOTA - District> County= prevalence/severity on sunflower [full blossom to ray petals dropping]: NE> Grand Forks= trace to 50%/trace to 20%, Walsh= 99%/1-10%, Pembina= 50-99%/trace to 5%, Cavalier= trace to 50%/trace to 2%, Towner= 80-100%/trace to 2%, Ramsey= trace/trace, EC> Steele= trace to 100%/trace to 5%, Barnes= trace/trace, and NC> Benson= 50%/trace to 1%. (V.L. Jons).

SCLEROTINIA STEM ROT (Sclerotinia sclerotiorum) - NORTH DAKOTA - Wilt and head rot symptoms seem more prevalent on sunflowers than in 1977 or 1978. District> County= status on sunflowers: EC> Traill, Steele, Griggs, NE> Grand Forks, Walsh, Pembina, Cavalier, Towner, Ramsey, and Nelson= prevalence light, less than 1% of total plants infected in fields surveyed, Nelson= 3% of plants

wilting or dead in some areas of 1 field, and Traill= sclerotinia stem rot prevalence heavy in experimental plot. (V.L. Jons).

A POWDERY MILDEW (Erysiphe cichoracearum) - NORTH DAKOTA - District>.prevalence on sunflowers: NE and EC> trace. (V.L. Jons).

A DOWNY MILDEW (Plasmopara halstedii) - NORTH DAKOTA - District> County= prevalence on commercial sunflowers: EC> Traill= 1% in 1 field. (V.L. Jons).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - UTAH - District> County= status on tomatoes and potatoes: N> Weber and C> Utah= serious problem in some fields. (B. Duncan).

POTATO APHID (Macrosiphum euphorbiae) - WISCONSIN - Area> status week ending August 17: Central Sands> 1-30 per sweep of early potatoes near harvest, and southern one-fourth of State> noted on tomatoes in gardens and on sweet and field corn. (O.L. Lovett).

GREEN PEACH APHID (Myzus persicae) - WISCONSIN - Populations light on early potatoes close to harvest in Central Sands area and on potatoes without systemic treatments at Spooner Experiment Station week ending August 17. Seems more widespread than in past several years, population buildup on potatoes should be watched in fields where treatments discontinued this season. (O.L. Lovett). DELAWARE - District> County= status on peppers: S> Sussex= averaged 200 per 100 leaves. (P.P. Burbutis).

BEANS AND PEAS

DISEASES

BACTERIAL BEAN BLIGHT (Xanthomonas phaseoli) - WISCONSIN - District> County= prevalence/severity on lima beans week ending August 17: SE> Walworth= leaf spots on 30% of plants/about 5%. (O.L. Lovett).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - MARYLAND - Area> status: Eastern Shore> snap beans for processing treated every 4 days to prevent damage. (J.L. Hellman).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - WISCONSIN - District> County= status on commercial cabbage: SE> Racine and Kenosha= populations trace. Adult trap counts: SC> Columbia= 0 in pheromone traps at Arlington, August 7-13, C> Waupaca= 5 in blacklight traps at Clintonville, July 31 to August 13, and EC> Outagamie= 2 in blacklight traps at Bear Creek, July 31 to August 3. (O.L. Lovett).

CUCURBITS

INSECTS

STRIPED CUCUMBER BEETLE (Acalymma vittata) - OKLAHOMA - District> County= status on watermelons week ending August 24: SW> Caddo= heavy in 1 field. (D.C. Arnold).

SQUASH BUG (Anasa tristis) - OKLAHOMA - District> County= status week ending August 24: SW> Caddo= damage heavy to watermelons in 1 field, SC> Bryan= heavy on garden vine crops, and EC> Pittsburg= moderate on squash and pumpkins. (D.C. Arnold).

DECIDUOUS FRUITS AND NUTS

DISEASES

A SPIRAL NEMATODE (Helicotylenchus sp.) - OKLAHOMA - District> County= counts of this species, a STUBBY-ROOT NEMATODE (Trichodorus sp.), a STUNT NEMATODE (Tylenchorhynchus sp.), and a PIN NEMATODE (Paratylenchus sp.) per 100 ml of soil beneath cherry tree week of August 28: C> Okfuskee= 12, 12, 40, and 100, respectively. (K.E. Conway).

INSECTS

FALL WEBWORM (Hyphantria cunea) - NEW MEXICO - District> County= status on shade and fruit trees: NW> Bernalillo, Santa Fe, and Rio Arriba= scattered infestations averaged 1-4 tents per tree, defoliation less than in 1978. (C. Heninger).

GREEN JUNE BEETLE (Cotinis nitida) - OKLAHOMA - District> County= status on ripe peaches: WC> Washita= damage heavy. (D.C. Arnold).

APPLE MAGGOT (Rhagoletis pomonella) - WISCONSIN - District> County= adults in fresh bait trap: SC> Dane= 11 in 48-hour period August 7-9 and 5 in next 24 hours, none caught since. (O.L. Lovett).

APPLE APHID (Aphis pomi) - IDAHO - District> County= status on apples: SW> Payette= populations extremely heavy, dripping on fruit caused serious damage to 24-ha orchard near Fruitland. (H.W. Homan).

EUROPEAN RED MITE (Panonychus ulmi) - IDAHO - District> County= status on apples: SW> Payette= populations light in 24-ha orchard at Fruitland. (H.W. Homan).

PECAN WEEVIL (Curculio caryae) - OKLAHOMA - District> County= status on pecans week ending August 24: NE> Rogers= heavy adult emergence, Mayes= heavy, NC> Kay= moderate, SC> Garvin= light, and EC> Muskogee= 1 adult taken by shaking 10 pecan limbs in Fort Gibson area. (D.C. Arnold). MISSISSIPPI - Heavy in pecan-growing areas of State. Controls applied in many orchards, emergence continued. District> County= counts from 34 cone traps: EC> Lowndes= 8 August 27 and 5 August 29. (W.W. Neel).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - OKLAHOMA - District> County= counts per head on beef cattle week ending August 24: WC> Washita= 400-500, NC> Major= 300-450, and SE> Pushmataha= 50-500 (averaged 200). Current counts per head on cattle: EC> Pittsburg= 80-400, SC> Pontotoc= 400-800 (averaged 1,000 per head on 2 bulls), and WC> Washita= 800. (D.C. Arnold). WISCONSIN - District> County= counts per side week ending August 17: SC> Rock= increased, 5 in 1 site and up to 30 in another site, Jefferson= 10, and C> Wood= 15. (O.L. Lovett). FLORIDA - District> County= counts per head in small beef herd August 17: C> Alachua= averaged 352 at Newberry, population stable. (D. Boyd).

FACE FLY (Musca autumnalis) - NEW HAMPSHIRE - Adult populations increased rapidly statewide due to ideal weather conditions in August. County= counts on horses week of August 22: Grafton= averaged 30-50 per head in open pastures at Warren. (J.F. Burger).

STABLE FLY (Stomoxys calcitrans) - WISCONSIN - District> County= counts per side week ending August 17: SC> Jefferson, Rock, and C> Wood= 1-12. (O.L. Lovett).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - UTAH - District> County= status: N> Salt Lake and Weber= moved from uncultivated land to corn in foothill areas. (G.F. Knowlton). NEW MEXICO - District> County= status week ending August 24: SE> Chaves= populations of 60 per 0.8 sq m on rangeland decreased to 17-35 per 0.8 sq m in area 24 km south of Roswell, rangeland severely denuded (M. Perry) and NE> Union= 1-2 per 25 sweeps of alfalfa in Sedan area (C. Heninger). Current status: NW> Valencia= caused decreased honey production, consumed many of nectar-producing plants during summer. (E. Edwards). COLORADO - District> County= Melanoplus sp. counts per 0.8 sq m: N> Larimer= 15-25, Weld= 8-50, and Morgan= 8-30. (J.D. Sexton, M.E. Young).

GYPSY MOTH (Lymantria dispar) - OREGON - First trap record of adult for State. County= trap data: Clackamas= male trapped at residence 1.6 km south of Milwaukie, August 9, 1979, by D. Kimberling. Male trapped at residence at Lake Grove, 8.45 km west of first find by S. Blake. Both determined by R.L. Westcott. Additional 200 traps placed within 3-km radius after first find on 0.40 km grid pattern. Traps examined daily until about August 25. No host damage or egg masses found. Additional 75 traps placed in 3-km radius of second find. (F.P. Larson, S. Black). VIRGINIA - District> County= gypsy moth adult males trapped during August: E> Accomack= 1, SW> Floyd= 3; N> Fairfax= 8, Loudoun= 2, Prince William= 1; N> Clarke= 1; SE> Independent City of Portsmouth= 1, and Independent City of Virginia Beach= 1. (J.L. Garner).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton week ending August 24: C> Pinal= 1st and 3rd instars 35-40%, SE> Graham= 0-10% infested bolls, SW> Yuma= 4-40% infested bolls. Pheromone trap catches per trap per day: C> Maricopa= 0-22 and SW> Yuma= 0-57. (P. Gomez et al.).

RANGE CATERPILLAR (Hemileuca oliviae) - NEW MEXICO - District> County= status: SE> Lincoln= pupation underway, majority 5th and 6th instars. (A. Brittle et al.).

DETECTION

NEW COUNTY RECORDS

INSECTS

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - District> County= collection data from Liquidambar styraciflua (sweetgum): C> Citrus= nymphs and adults collected on leaves at residence at Floral City, June 12, 1979, by E. Graham and R. Phillips, determined by A.B. Hamon. Host on property more than 1 year. (E. Graham, R. Phillips).

A COREID BUG (Zicca taeniola) - FLORIDA - District> County= collection data from weeds: C> St. Johns= 2 adults collected near citrus in garden at Switzerland, April 19, 1979, by R.E. Hill, determined by C.A. Triplehorn. (R.E. Hill).

LIGHT TRAP COLLECTIONS

	Temperature °C	Precipitation (mm)	Type of trap (BL - blacklight, I - incandescent, MV - mercury vapor, O - other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mamestra quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 8/13-26			BL	39					12	51						15		28	19	4486		34	237	
CALIFORNIA																								
Manteca 8/26	18-36		BL	3				3		1								1	51	340			8	
FLORIDA																								
Gainesville 8/23-27			BL		1			3		3									2		10	2		
KANSAS																								
Haviland 8/30			BL	0						40							274		6			0		
Hays 8/24, 28			BL	0						9							15		7			13		
KENTUCKY (County)																								
Fayette 8/22-28			BL	8						23					2		9	9	43			65		
MINNESOTA																								
Fergus Falls 8/22-28	8-26	16	BL														1	11						
Le Sueur 8/22-28	8-25	14	BL	4													747		10				10	
MISSISSIPPI																								
Stoneville 8/24-30	19-33	3.0	2BL	26	1			13	18	984						1		4	63	36	321	158	825	
MONTANA																								
Bozeman 8/18-24			BL			8	2															1	2	
NEBRASKA																								
Clay Center 8/24-30			BL	9			103			48							2038		34					
Dixon County 8/23-29			BL	7			2			8							927		24					
OHIO (Counties)																								
Putnam 8/21-27			BL	3													34		4		1		1	
Wayne 8/23-29			3BL	35													239	9	129		5			
PENNSYLVANIA (Regions)																								
Central 8/20-30			BL																7					
Northwest 8/20-30			BL	2															9					

LIGHT TRAP COLLECTIONS

	Temperature °F.	Precipitation (inches)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mamestra quinquemaculata (cabbage armyworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Paridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
TENNESSEE																								
Selmer 8/27-30			BL						4	10							6		1		5	9	6	
Springhill 8/23-30			BL							79							19		32					
TEXAS																								
College Station 8/21-27			BL	0	0				2	5				0	2				7		4	3		
WEST VIRGINIA (Counties)																								
Monroe 8/27			BL														2		6					
Putnam 8/20-26			BL	2						4									3					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Sphenospora saphena Cumm. a rust Det. F. Matthews	uredial telial	on leaves of orchid plants from baggage	Ecuador	Miami	NV
Acrolepia assectella (Zeller) leek moth Det. C. Iijima	larval	on onions from baggage	Hawaii	Honolulu	USA
Ceratitis capitata (Wiedemann) Mediterranean fruit fly Det. R.P. Higgins	larval	in coffee berries from baggage	Colombia	Miami	FL
Cerococcus deklei Kosztarab & Vest a cerococcid Det. S. Nakahara	adult	on Codiaeum cuttings from baggage	Bahamas	Nassau	NY
Dacus dorsalis Hendel oriental fruit fly Det. R. K. Kunishi	larval	in guava from baggage	Hawaii	Honolulu	TX
Melanaspis tenax McKenzie a diaspidid scale Det. S. Nakahara	adult	on orchid plants from baggage	Cuba	Miami	FL
Phloeosinus rudis Blandford a scolytid beetle Det. D.M. Anderson	larval adult	in dunnage	Japan	Duluth	--
Tomicus piniperda (Linnaeus) a scolytid beetle Det. F. Krim	adult	in wood crates of glass	West Germany	New York	CT

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

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U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

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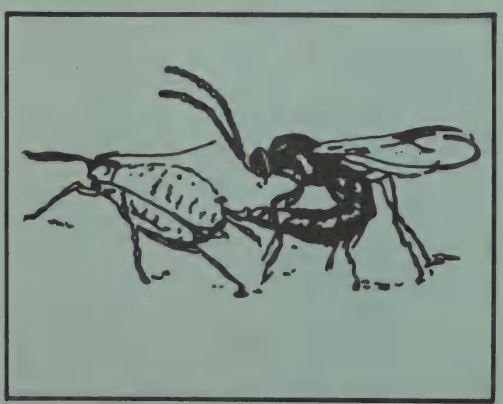
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Correspondence should be directed to:

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Plant Protection and Quarantine Programs
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September 14, 1979 4(34):667-681

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

BOLL WEEVIL continued to cause problems on cotton in many areas of Mississippi. (p. 674).

PECAN WEEVIL populations still heavy in pecan orchards throughout Mississippi. (p. 676).

SOUTHERN PINE BEETLE populations extremely heavy throughout Mississippi and at epidemic levels in 17 counties in South Carolina. (p. 677).

FALL WEBWORM extremely heavy on forest and shade trees in mid-Willamette Valley area of Oregon. (p. 677).

GRASSHOPPERS economic in eastern area of Montana. (p. 678).

Detection

For new county records see page 679.

Reports in this issue are for the week ending September 7 unless otherwise indicated.

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CORN, SORGHUM, SUGARCANE

DISEASES

COMMON MAIZE RUST (Puccinia sorghi) - KANSAS - Survey on corn [dent] (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NC> Washington	100	10-25
NC> Republic	100	50
NC> Cloud	100	50

NORTHERN LEAF BLIGHT (Setosphaeria (Exserohilum) turcica) - WEST VIRGINIA - District> County= asexual prevalence on corn in number of fields (f) August 28: E> Jefferson= moderate to heavy on 90% of plants in 3f, Berkeley= moderate on 80% of plants in 1f, and Randolph= light on 50% of plants in 1f. (R.L. Williams).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - Survey on sorghum [dough] (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NC> Washington	trace	light
NC> Republic	30	light
C> McPherson	100	moderate
NE> Pottawatomie	10	light

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Survey on sorghum [dough] (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NC> Washington	trace	light
NC> Republic	30	light
C> Dickinson	10	light
C> Saline	5	light

HOLCUS SPOT (Pseudomonas syringae) - KANSAS - Survey on sorghum [dough] (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
C> Dickinson	90	light
C> Saline	trace to 1	light

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - Currently most widespread sorghum disease in north-central, northeastern, and central areas. Survey on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Washington	trace	light	flower to dough
EC> Geary	80	light	dough
C> Dickinson	trace to 30	light	dough
NE> Pottawatomie	20	light	dough
NE> Marshall	15	light	dough

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= status on sorghum: NC> Washington= trace in 1 field. (T. Sim, IV).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - NEBRASKA - District> County= status on corn week of August 30: SW> Keith, Perkins, and Lincoln= first generation egg laying about complete in fields and larvae, 2nd to 4th instars, mostly entered stalks (Campbell), NE> Wayne= fresh egg masses 95+% in 1 field, borers ranged from egg to 3rd instar, mostly eggs, and NE> adult flights continued (Witkowski, Jarvi). Current status in blacklight traps: NE> Dixon= averaged 400+ per night. Majority of females deposited eggs. (Witkowski). MINNESOTA - District> County= status on corn: EC> Washington= second generation borers trapped in light traps. Infestation 6-8% in 5 fields, mostly "shotholing." (D.D. Sreenivasam).

MICHIGAN - Area> European corn borer status on corn: Statewide> nearly all stages found in fields (R. Hammon), only few fields infested by second generation in spite of heavy first generation (R. Ruppel). ALABAMA - Area> larval instars (average) per 25 sorghum [fruiting] plants: Sand Mountain> 1st to 3rd 4-10 (7) in 2 sites. (W.A. Smith). MAINE - Infestations in cornstalks and ears continued very light in fields surveyed in all areas, extreme southern and northern areas not surveyed. (A. Gall).

CORN EARWORM (Heliothis zea) - TEXAS - District> County= status on sorghum: Southern High Plains> Crosby and Northern High Plains> Floyd= up to 40% infested heads August 27 (P.W. Treptow, III) and Hale= 1-2 per head August 31 (G.B. Cronholm). OKLAHOMA - District> County= status on late-planted sorghum: NC> Garfield, Grant, and Alfalfa= averaged 1 per plant in whorls. (D.C. Arnold). ALABAMA - Area> larval instars per 100 sorghum [head] heads: Central Alabama> 2nd to 3rd averaged 20 in 1 site. (W.N. Stephenson).

FALL ARMYWORM (Spodoptera frugiperda) - ALABAMA - Area> larval instars per 100 sorghum [host stage] heads in 1 site each: Gulf Coast> 3rd averaged 22 [whorl] (L.W. Lockhart) and Central Alabama> 1st to 3rd averaged 60 (W.N. Stephenson). TENNESSEE - District> County= larval status on corn week ending August 31: Central Basin> Marshall= fed on ears, cut through husk. (M. Cooper).

WESTERN BEAN CUTWORM (Loxagrotis albicosta) - NEBRASKA - District> County= larvae per corn [hard dough] ear: NW> Morrill= averaged 2 on 2,023 ha on sandy soil in northwestern area. (Hagen).

NORTHERN CORN ROOTWORM (Diabrotica longicornis) - WEST VIRGINIA - District> County= status August 28: E> Jefferson= adults heavy on corn and adjacent alfalfa, damage to corn very light, 2 adults per sweep taken in alfalfa next to corn. (J.D. Hacker).

CORN LEAF APHID (Rhopalosiphum maidis) - OKLAHOMA - District> County= status on late-planted sorghum: NC> Garfield, Grant, and Alfalfa= 10-30 per plant. (D.C. Arnold). MAINE - Populations and infestations decreased to zero, very unusual because in other years some usually continue to be found until corn freezes and/or ripens, even after fungus causes population decrease. (A. Gall).

CHINCH BUG (Blissus leucopterus leucopterus) - OKLAHOMA - District> County= counts per 0.3 row m of sorghum: EC> Muskogee= averaged 5. (D.C. Arnold).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - District> County= prevalence on alfalfa [30 cm tall]: NC> Washington= 30% and 80% in 2 fields, no defoliation observed. (T. Sim, IV).

ALFALFA RUST (Uromyces striatus var. medicaginis) - KANSAS - District> County= prevalence on alfalfa: NC> Washington= trace in 1 field and C> Saline= trace in 2 fields. (T. Sim, IV).

SOUTHERN ANTHRACNOSE (Colletotrichum trifolii) - KANSAS - District> County= prevalence on alfalfa: NC> Washington and C> Dickinson= trace in 1 field each. (T. Sim, IV).

ALFALFA BACTERIAL LEAF SPOT (Xanthomonas alfalfae) - KANSAS - District> County= prevalence on alfalfa: NC> Washington= 5% in 1 field. (T. Sim, IV).

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - District> County= counts per 10 sweeps of alfalfa: SC> Johnston= 2-3 in fields surveyed. (D.C. Arnold).

BERTHA ARMYWORM (Mamestra configurata) - MONTANA - District> County= status on alfalfa: SW> Beaverhead= full-grown larvae heavily infested fields in Dillon area. (G. Jensen, W. Morrill).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= counts per 10 sweeps of seed alfalfa: SW> Tillman= 100-300 in 1 field in Tipton area. (D.C. Arnold).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= status on alfalfa week ending August 31: C> Maricopa= larvae 10-16 per 100 sweeps, Pinal= larvae 10-452 and adults 4 per 100 sweeps, and SW> Yuma= larvae 10 per 10 sweeps. (F. Brooks et al.).

NORTHERN CORN ROOTWORM (Diabrotica longicornis) - WEST VIRGINIA - See corn, sorghum, sugarcane on page 670.

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= status on alfalfa week ending August 31: C> Pinal= nymphs 4 and adults 260 per 100 sweeps, Maricopa= adults 42-190 per 100 sweeps, and SW> Yuma= adults 9 per 10 sweeps. (F. Brooks et al.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults on alfalfa week ending August 31: C> Maricopa= 48 and 66-152 per 100 sweeps, Pinal= 24 and 31-92 per 100 sweeps, and SW> Yuma= 2 and 7 per 10 sweeps. (F. Brooks et al.).

TARNISHED PLANT BUG (Lygus lineolaris) - OKLAHOMA - District> County= counts per 10 sweeps of seed alfalfa: SW> Tillman= 150-350 in 1 field in Tipton area. (D.C. Arnold).

SOYBEANS

DISEASES

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - WEST VIRGINIA - District> County= prevalence on soybeans August 28: E> Jefferson= light on 60% of plants on 44.5 ha of variety Cutler. (R.L. Williams).

BACTERIAL TAN SPOT (Erwinia herbicola) - IOWA - New county record. District> County= collection data from soybean [2 nodes to flower]: EC> Muscatine= collected along border rows and in low areas of field at Muscatine, July 12, 1979. Collected and determined by D.J. Williams, confirmed by J.M. Dunleavy. (D.J. Williams).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Soybeans in some early planted fields in central area began losing leaves as plants neared maturity. Survey on soybeans (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
C> Saline	100	light
C> McPherson	100	light
C> Dickinson	80	light
C> Marion	60-80	light

INSECTS

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= status on soybeans: EC> southern Sequoyah and SE> northern Le Flore= pod damage up to 30% in scattered spots and SC> Garvin= damage light. (D.C. Arnold). SOUTH CAROLINA - District> County= status on soybeans August 27: E> Marion= larval infestation heavy, about 90%, on 16 ha at Nichols; damage extensive. (W.B. Meares).

NOCTUID MOTHS (Heliothis spp.) - ARKANSAS - District> County= larval status on soybeans: Southwestern area> unusually light, SW> Miller and Little River= averaged 1 per 5.5 row m (M.A. Mayse) and Northeastern area> 1 per 0.9 row m in few fields (J. Kimbrough). ALABAMA - Area> larval instars (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Gulf Coast> 3rd 1-8 (4.5) [full seed] and 10-15% in 2s (L.W. Lockhart), Coastal Plains> 2nd no data (1) [full seed to beginning maturity] and 10-15% in 2s (T. Lemons), Wiregrass> 2nd to 4th no data (3) [full seed] and 5% in 1s (Knox-Wilson), Central Alabama> 3rd to 5th no data (4) [full pod] and no data in 1s (W.N. Stephenson), and Tennessee River> 2nd to 4th 1-4 (2.5) [pod set to full pod] and 5% in 4s (J.E. Gregory).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= status on soybeans: SC> Atoka= averaged 10 per 0.3 row m in 1 field and EC> Muskogee and NE> Wagoner= defoliation up to 10% in some fields. (D.C. Arnold). ARKANSAS - District> County= larval status per 0.3 row m on soybeans: SW> Little River= 4 and Miller= 3 (M.A. Mayse), SE> Lincoln and Jefferson= 10, and Northeastern area> 8. Mostly small larvae reported (M. Wall, J. Kimbrough). MISSISSIPPI - Currently predominant soybean pest, many areas nearing economic levels. District> County= larvae per 0.3 row m of soybeans [pod fill]: EC> Winston, Kemper, Oktibbeha, Lowndes, and Clay= 3-7. (R. Anderson).

ALABAMA - Area> green cloverworm larval instars (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Gulf Coast> 3rd to 4th 3-6 (5) [full seed] and 10-15% in 3s (L.W. Lockhart), Coastal Plains> 1st to 4th 1-75 (31) [full seed to beginning maturity] and 10-15% in 3s (T. Lemons), Wiregrass> 2nd to 5th 15-28 (20.3) [full seed] and 5% in 3s (Knox-Wilson), Central Alabama> 2nd to 4th 18-42 (30) [full pod] and 9-15% in 2s (W.N. Stephenson), Black Belt> 1st to 5th 21-49 (29) [seed] and 5-15% in 5s (T. Pigott), Tennessee River> 2nd to 3rd 8-21 (15.2) [pod set to full pod] and 5% in 5s (J.E. Gregory), and Sand Mountain> 1st to 4th 1-9 (4.3) [beginning seed to full seed] and 10% in 4s (W.A. Smith).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - ALABAMA - Area> larval instars (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Gulf Coast> 3rd to 4th 23-119 (63) [full seed] and 10-15% in 5s (L.W. Lockhart), Coastal Plains> 1st to 4th 25-30 (27.5) [full seed to beginning maturity] and 15% in 2s (T. Lemons), Wiregrass> 2nd to 5th 12-18 (15) [full seed] and 5% in 2s (Knox-Wilson), Central Alabama> 2nd to 3rd no data (6) [full pod] and 9% in 1s (W.N. Stephenson), and Black Belt> 2nd to 5th 6-15 (9.7) [seed] and 5-15% in 3s (T. Pigott).

SILVER SPOTTED SKIPPER (Epargyreus clarus) - MARYLAND - Area> status on soybeans: Eastern Shore> all larval stages present, most fields averaged less than 2 per 3.0 row m. District> County= status: Eastern Shore> Wicomico and Somerset= 1-3 per 0.3 row m, defoliation moderate to heavy. (J.L. Hellman).

MEXICAN BEAN BEETLE (Epilachna varivestis) - MARYLAND - Area> adults and larvae per 0.3 row m of soybeans: Eastern Shore> 10-43, defoliation still 5-25%; about 3,000 ha sprayed. (J.L. Hellman).

BEAN LEAF BEETLE (Cerotoma trifurcata) - OKLAHOMA - District> County= status on soybeans: EC> Muskogee and NE> Wagoner= increased, defoliation up to 10% in some fields. (D.C. Arnold).

ALABAMA - Area> adults (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Gulf Coast> 3-4 (3.5) [full seed] and 10% in 2s (L.W. Lockhart), Coastal Plains> 1-7 (5) [full seed to beginning maturity] and 10-15% in 3s (T. Lemons), Central Alabama> 2-22 (44.2) [seed] and 5-15% in 5s (T. Pigott), Tennessee River> 12-23 (17.6) [pod set to full pod] and 5% in 5s (J.E. Gregory), and Sand Mountain> 1-3 (2) [beginning seed to full seed] and 10% in 5s (W.A. Smith).

WHITEFRINGED BEETLES (Graphognathus spp.) - ALABAMA - Area> adults (average) per 9.1 row m of soybeans [full seed] and leaf loss at 2 sites each: Gulf Coast> 1-2 (1.5) and 10-15% (L.W. Lockhart) and Wiregrass> 4-6 (5) and 5% (Knox-Wilson).

GREEN STINK BUG (Acrosternum hilare) - MISSISSIPPI - District> County= status of this species, BROWN STINK BUG (Euschistus servus), and SOUTHERN GREEN STINK BUG (Nezara viridula) on soybeans: EC> Winston, Kemper, Oktibbeha, Lowndes, and Clay= adults and nymphs continued increase, 2-8 per 1.8 row m. (R. Anderson). SOUTH CAROLINA - District> County= status on soybeans August 30: C> Orangeburg= nymphs and adults averaged 2 per 0.3 row m in 16-ha field near Denmark. (R.B. Griffin).

PEANUTS

INSECTS

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= status on peanuts: EC> Muskogee= averaged 1 per 0.3 row m, 5% defoliation. (D.C. Arnold).

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - SOUTH CAROLINA - District> County= percent damage in peanut fields: C> Lee= 80% in 15-ha field, 60% in 5-ha field, and 10-20% in other fields. (D.G. Manley).

POTATO LEAFHOPPER (Empoasca fabae) - SOUTH CAROLINA - District> County= status on peanuts August 31: C> Sumter= damage moderate in select fields. (D.R. Johnson).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - Survey on cotton August 24-31 (W.E. Buxkemper):

District> County	Punctured squares (%)
Blacklands> Williamson & Milam	1-50
Blacklands> Hill & Johnson	80
Southern Low Plains> Scurry	0
Northern Low Plains> Hall & Motley	up to 7
Northern Low Plains> Dickens	0-2
Northern High Plains> Briscoe	4
Edwards Plateau> Tom Green & Southern Low Plains> Runnels	30

MISSISSIPPI - Area> boll weevil status on cotton: Many areas of State> populations continued to cause problems, and southern Delta> populations heavy, economic level should continue to be controlled to prevent boll damage. (R. Anderson). SOUTH CAROLINA - Area> status on cotton August 31: Statewide> populations light to moderate in many fields. (D.R. Johnson). District> County= C> Clarendon= heaviest populations in Pee Dee region. (D.G. Manley).

BOLLWORMS (Heliothis spp.) - TEXAS - BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) on cotton August 27-31 (R.E. Glodt et al.):

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Southern Low Plains> Fisher & Jones	0-4	0-4	0-6%	terminals
Northern Low Plains> Dickens	0-1	0-2	0-8%	terminals
Southern High Plains> Crosby	0-13	0-2	0-3	terminals
Southern High Plains> Martin	0	1-4	2-12	terminals
Southern High Plains> Howard	1-2	2-4	3-8	terminals
Southern High Plains> Glasscock	0-22	1-8	2-22	terminals
Southern High Plains> Midland	0-10	0-6	7-9	terminals
Northern High Plains> Floyd	0-10	0-10	0-15	terminals

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Northern High Plains> Hale	up to 40	2-98 (per 100 plants)	1-16%	
Edwards Plateau> Reagan	5-27	1-6	1-12	terminals
Edwards Plateau> Upton	0-43	0-2	0-1	terminals
Trans-Pecos> Culberson	6-14	10-14	1-5	terminals
Trans-Pecos> Reeves	5-10	3-8	5-12	terminals
Trans-Pecos> Pecos	5-14	4-12	5-15	terminals

OKLAHOMA - District> County= Heliothis spp. status on cotton: SW> Jackson, Greer, Tillman, Harmon, and Kiowa= eggs and larvae 2-60 per 100 terminals. Infestations above threshold in about 50% of fields. Larvae averaged about 80% H. zea and 20% H. virescens. WC> Roger Mills= larvae averaged 6 per 100 terminals in 1 field. (D.C. Arnold).

LOUISIANA - Heliothis spp. adults laying eggs on cotton, very spotted, eggs heavier on greenest cotton. Late-planted cotton and cotton with plenty of soil moisture attracting most adults. Area> eggs per 100 plants week of August 29: NE> 0-46 and Red River Valley> 0-20. Cotton blooming in top and beginning to "cut out" seems less attractive to adults. (J.S. Tynes). ARKANSAS - Larval activity increased slightly in southeastern and northeastern area cotton fields. District> County= status: Northeastern area> occasional field neared treatment level, southeastern area> larvae 2 per 0.3 row m in some fields, SE> Jefferson= average counts ranged 7 eggs and 2 larvae to 26 eggs and 6 larvae per 8.5 row m, average damaged squares 5% and damaged bolls 2%. (M. Wall, J. Kimbrough). Adult H. zea and H. virescens light trap data: NE> Mississippi= 326 and 3 in 6 traps August 20-24 and EC> Saint Francis= 59 and 1 in 1 trap August 25-31. (M.A. Mayse).

MISSISSIPPI - Area> Heliothis spp. status on cotton: Statewide> populations increased slightly, numbers and economic levels spotty. Large variations from field to field. As cotton becomes "cut out" bollworms will be more attracted to late and lush areas in fields. (R. Anderson). TENNESSEE - District> County= H. zea status on cotton week ending August 31: West Tennessee> Haywood= infestation 8%, larvae up to 1 cm, treatment underway, West Tennessee> Haywood, Delta> Lauderdale, and Tipton= infestation 2-3%, southern tier of West Tennessee counties> all larval stages fed on flowers and all different size bolls, and Central Basin> Lincoln and Cumberland Plateau> Franklin= counts decreased from last period. (J. Locke et al.).

SOUTH CAROLINA - District> County= H. zea and H. virescens on cotton August 31: C> Sumter= eggs increased up to 100 per 100 plants in several fields. (D.R. Johnson). Current status: E> Marion= eggs averaged 10-12 per 100 plants and adults still present in fields in Pee Dee area, some very small larvae in some fields. (M.R. Gilreath, J.B. Kissam).

EUROPEAN CORN BORER (Ostrinia nubilalis) - SOUTH CAROLINA - District> County= status on cotton August 31: C> Lee and E> Dillon= damage moderate to heavy in certain fields. (D.R. Johnson).

BANDEDWINGED WHITEFLY (Trialeurodes abutilonea) - MISSISSIPPI - District> County= status of this species and GREENHOUSE WHITEFLY (Trialeurodes vaporariorum) on cotton: EC> Winston, Kemper, and Neshoba= increased on maturing cotton but no economic populations. (R. Anderson).

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - MISSISSIPPI - District> County= status on cotton: EC> Winston, Kemper, and Neshoba= counts continued to increase, heavy on maturing cotton; some controls applied. (R. Anderson).

MISCELLANEOUS FIELD CROPS

DISEASES

SUNFLOWER LEAF SPOT (Septoria helianthi) - NORTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped]: EC> Cass and Traill= 100%/5-10%. (V.L. Jons).

SCLEROTINIA STEM ROT (Sclerotinia sclerotiorum) - NORTH DAKOTA - District> County= prevalence of wilt and head rot symptoms on sunflower: EC> Cass and Traill= trace to 2% in 7 fields. (V.L. Jons).

SUNFLOWER BLACK STEM (Phoma oleracea var. helianthi-tuberosi) - NORTH DAKOTA - District> County= prevalence/severity on sunflower [full blossom to ray petals dropping] week ending August 31: EC> Traill= trace to 50%/1-2%, Steele= trace/trace, Griggs= trace/trace, NE> Grand Forks= trace to 50%/trace to 5%, Walsh= trace to 50%/trace to 5%, Pembina= trace/trace, and Nelson= trace to 25%/trace to 5%. Current prevalence/severity on sunflowers [ray petals dropped]: EC> Cass and Traill= 50-100%/trace to 5%. (V.L. Jons).

A RHIZOPUS HEAD ROT (Rhizopus sp.) - NORTH DAKOTA - District> County= prevalence on sunflower [ray petals dropped]: EC> Cass and Traill= trace. (V.L. Jons).

POTATOES, TOMATOES, PEPPERS

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - TENNESSEE - District> County= status week ending August 31: West Tennessee> McNairy= caused problems to pepper patches, controls applied. (J. Locke).

GREEN PEACH APHID (Myzus persicae) - CALIFORNIA - District> County= adults per pepper: Central Coast> Santa Clara= 5 at Milpitas. (M. Beavers, P. Evans).

CUCURBITS

INSECTS

SQUASH BUG (Anasa tristis) - OKLAHOMA - District> County= status: WC> Roger Mills= heavy on commercial plantings of cucumbers, pumpkins, squash, and cantaloupes; SW> Jackson= on garden squash; and EC> Pittsburg= on pumpkins, adults laid eggs on nearby garden tomato plants as pumpkins died. (D.C. Arnold).

DECIDUOUS FRUITS AND NUTS

INSECTS

PECAN WEEVIL (Curculio caryae) - MISSISSIPPI - Populations continued heavy in pecan orchards statewide, damage expected to be extremely heavy. District> County= emergence cone trap catches week ending August 30: EC> Lowndes= 162 from 23 traps. (W.W. Neel).

FOREST AND SHADE TREES

INSECTS

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - MISSISSIPPI - Area> status: Statewide> populations extremely heavy thus far this season. Newly infested spots as of August 15: Mississippi State University Forest> 28, Noxubee Forest> 28, and Tombigbee National Forest> 113. Controls applied but continued spread expected. (R. Mizzell). SOUTH CAROLINA - Epidemic levels in 17 counties. About 8,000 beetle spots, involving about 813,000 trees seen. About 47,000 cords of pulpwood and 23,000,000 board feet of saw timber, valued at about 4.3 million dollars, destroyed. (J.B. Kissam).

PINE NEEDLE SCALE (Chionaspis pinifoliae) - NEW MEXICO - Area> status on pinyon: Magdalena Ranger District> moderately infested about 2,000 ha in Cibola National Forest. (M. Gilmore).

FALL WEBWORM (Hyphantria cunea) - OREGON - Larvae matured, heavy populations seeking overwintering sites. Area> larval status on forest and shade trees: Mid-Willamette Valley> population levels extremely heavy again this year, many walnut trees severely defoliated. (R.L. Penrose). OKLAHOMA - District> County= status on cottonwoods: WC> Roger Mills= heavy in some areas. (D.C. Arnold). NEW HAMPSHIRE - First extensive infestation this year. Very heavy on Isle of Shoals several miles off coast, larvae extensively infested cherry trees, webs usually very scarce. Unlike on mainland, infestations virtually defoliated trees on island. (W. Lord).

MAN AND ANIMALS

INSECTS

FACE FLY (Musca autumnalis) - NEBRASKA - District> County= status on untreated cattle: SW> Lincoln and C> Dawson= averaged 9.5 per face. (Campbell).

STABLE FLY (Stomoxys calcitrans) - NEBRASKA - District> County= status: NE> Cuming= averaged 1.6 per leg in 4 feedlots August 31 (Jarvi); current status: SW> Lincoln and C> Dawson= averaged 13 per leg on untreated cattle (Campbell).

MOSQUITOES - ARKANSAS - Adults collected in New Jersey-type light traps August 17-22 (M.V. Meisch, D. Bassi):

District> County	City	Number of Psorophora	Number of Aedes	Number of Culex	Number of Anopheles	Number of traps
EC> Saint Francis	Forrest City	594	102	281	552	5

NEW HAMPSHIRE - Area> mosquito status: S> biting species substantially increased during last 10 days of August due to heavy rainfall and warm, humid weather. Aedes vexans and Aedes cantator adults increased 10-20 times in last 5 days in light trap collections, expected to remain heavy during next 7-10 days. (J.F. Burger).

FEDERAL AND STATE PROGRAMS

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - SOUTH CAROLINA - District> County= status on cotton: E> Marion= still found in Pee Dee area, growers urged to follow diapause control program. (D.G. Manley).

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - New county records for 1979 collected on oats, all determined by R.E. White (O.L. Lovett):

District> County	Nearest village	Date	Collector
EC> Kewaunee	Norman	Jul 18	H. Hauser
EC> Fond du Lac	Campbellsport	Jul 18	G. Grumann et al.
EC> Sheboygan	Greenbush	Jul 17	S. Saad, K. Winston
SE> Milwaukee	Milwaukee	Jul 19	S. Saad, K. Winston
SE> Ozaukee	Saukville	Jul 17	S. Saad, K. Winston

GRASSHOPPERS - NEVADA - Melanoplus sanguinipes, except Oedaleonotus enigma enigma on rangeland at Lund, surveys showed following areas infested with 8+ adults per 0.8 sq m week ending August 24 (D. Kail):

District> County	Locality	Average per 0.8 sq m	Hectares rangeland	Hectares cropland	Crop
NE> Elko	Jack Creek	25	3,642		
NE> Elko	Tuscarora	10-15	404.7	4,289.7	meadow hay
NE> Elko	Willow Creek	15	1,036		
NE> Elko	Wilson Reservoir	15-20	6,070.3	2,023	meadow hay
NE> White Pine	Lund	12	3,237	809.4	meadow hay
NE> White Pine	Newark Lake	8	607.0		

OREGON - Area> County= Melanoplus sanguinipes status per 0.8 sq m on turf, pastures, and rangeland: 7 and 15 Mile Hill> Wasco= adults 8+ on about 8,000 ha, populations similar at Maupin, Juniper Flats, and from Bakeoven southward to county line, 3-7 in most of remainder of county; and Warm Springs Indian Reservation> 3-7 on about 20,000 ha; Melanoplus packardii status: Along Deschutes River> heavy; adjacent to John Day and Deschutes Rivers> Sherman= 3-7; breaks of Columbia River> 8 or more; and south of Ashwood> Jefferson= earlier populations of 20-200 decreased rapidly in area not treated. No nymphs observed during survey. (J. Mellott). MONTANA - Area> mostly Melanoplus bivittatus on sweet clover: E> economically infested 166,731 ha, including 8 counties. (J. Brice).

JAPANESE BEETLE (Popillia japonica) - TENNESSEE - District> County= status week ending August 31: East Tennessee> Claiborne= damage heavy to corn and light to tobacco, milky spore applied on limited basis. (L. Whitaker). KENTUCKY - District> County= status week ending August 31: C> Jefferson= populations apparently increased. Although present for several years, normally only light numbers observed, however, adults caused notable defoliation to 15-20 Linden trees and some geranium plantings on university campus at Louisville during late July and early August. (C.V. Covell, Jr.). WEST VIRGINIA - District> County= status on soybeans August 28: E> Jefferson= infestation light, about 10% of plants showed feeding damage on 44.5 ha of variety Cutler. (J.D. Hacker).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= infested bolls week ending August 31: C> Maricopa= 0-20%. Adult pheromone trap catches per trap per day: C> Maricopa= 0-13 and SW> Yuma= 0-161. (P. Gomez et al.).

RED IMPORTED FIRE ANT (Solenopsis invicta) - SOUTH CAROLINA - New county record. District> County= collection data: NW> Oconee= 1 mound found near campground off State Highway 11 at Walhalla, August 13, 1979, by L.R. Morgan, and determined by R.F. Bollinger. (L.R. Morgan, R.F. Bollinger).

HAWAII PEST REPORT

General Vegetables - CARMINE SPIDER MITE (Tetranychus cinnabarinus) infestations moderate to heavy on 0.4 ha of eggplant at Kahuku, Oahu. TOBACCO FLEA BEETLE (Epitrix hirtipennis) infestations heavy and foliar damage moderate on eggplant in large garden at Wahiawa, Oahu. (L.M. Nakahara, C.Y. Kidani).

Ornamentals and Shade Trees - A WHITEFLY (Aleurodicus dispersus) infestations at Kahaluu and Kaaawa, Oahu, for new locality records. Infestations at Kaaawa light on coconut and plumeria. Infestations at Kahaluu heavy along 91.4 m stretch of Java plum, guava, and hau. General surveys showed very heavy infestations on coconut, plumeria, mango, hau, sea grape, and Port Jackson fig along coastal areas of Ala Moana, Waikiki, and Diamond Head. (L.M. Nakahara).

DETECTION

NEW COUNTY RECORDS

DISEASES

BACTERIAL TAN SPOT (Erwinia herbicola) - IOWA - Muscatine. (p. 672).

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - Kewaunee, Fond du Lac, Sheboygan, Milwaukee, and Ozaukee. (p. 678).

RED IMPORTED FIRE ANT (Solenopsis invicta) - SOUTH CAROLINA - Oconee. (p. 679).

CORRECTIONS

CPPR 4(29):572 - LIGHT TRAP COLLECTIONS - KANSAS - "Haviland 7/31, 8/3, 8/12" should read "Haviland 7/31, 8/3, 8/1, 2." (D.E. Mock, K.O. Bell, Jr.).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation mm	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (saltmarsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mamestra quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																							
Mesa 8/27-9/2			BL	22					7	15						2		5	51	1688		38	89	
CALIFORNIA																							
Bellota 9/4	18-32		BL																1	120			3	
Manteca 9/3	17-33		BL	2				9		2			1						16	216			6	
KENTUCKY																							
Lexington 8/29-9/5			BL	10						7						1	6	2	70		3	35		
MISSISSIPPI																							
Stoneville 8/31-9/6	20-33	53.8	2BL	17	2			8	9	454						2			58	6	65	38	632	
NEBRASKA																							
Clay Center 8/31-9/6			BL	3			85			33							299							
NORTH DAKOTA																							
Fargo 8/24, 29, 30			BL														31		50					
Williston 8/21, 24, 29, 31			BL										63					1	21					
TEXAS																							
College Station 8/28-9/4			BL	0	0				1	1					0	2			3		2	1	0	

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Anastrepha ludens (Loew) Mexican fruit fly Det. B.K. Dozier	larval	in mangoes from baggage	Mexico	San Diego	CA
Aspidiella hartii (Cockerell) a diaspidid scale Det. J. Dooley	adult	on roots of Zingiber from cargo	Fiji	Los Angeles	CA
Epidiaspis sp. a diaspidid scale Det. J. Dooley	adult	on leaves of Tillandsia plants from cargo	Guatemala	Los Angeles	CA
Ips typographus (Linnaeus) a scolytid beetle Det. E.J. Ford, Jr.	adult	in wood crates of nickle	Finland	Baltimore	MD
Lepidosaphes pistaciae Arch. a diaspidid scale Det. J. Dooley	adult	on pistachio from baggage	Iran	Los Angeles	CA
Maladera sp. a scarab Det. H.A. McKinney	adult	in hold of aircraft	Japan	Anchorage	CA
Maruca testulalis (Geyer) bean pod borer Det. H.A. McKinney	larval	in string beans from baggage	Philippines	Anchorage	CO
Cochlicella conoidea (Draparnaud) a helicid snail Det. P.J. Lima	juvenile	on container	Spain	Houston	TX

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

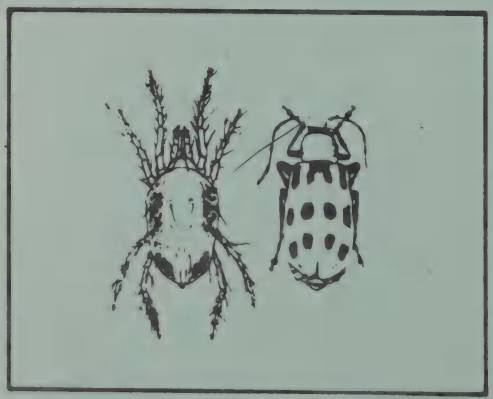
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

September 21, 1979

Vol. 4

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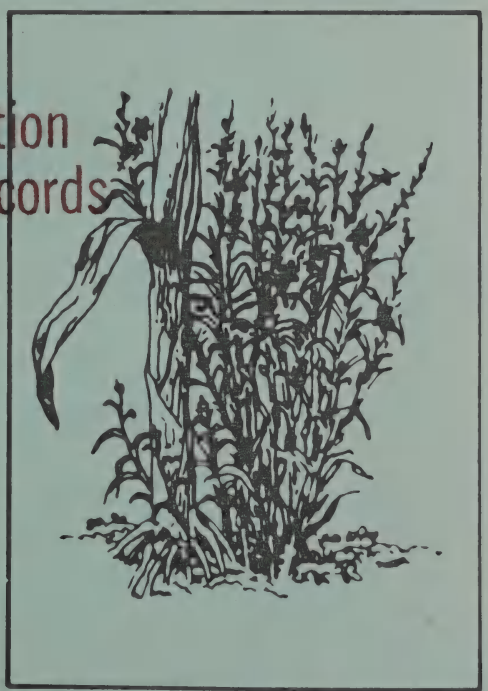
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR
New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

CORN EARWORM controls began earlier than usual in north-central Florida. (p. 687).

FALL ARMYWORM problems expected to continue on Eastern Shore of Maryland. (p. 688).

GRASSHOPPERS in California caused considerable damage to marginal rangeland grasses in Sierra Mountains district. (p. 699).

Some First Occurrences of the Season

EUROPEAN CORN BORER pupae in Minnesota. COTTON LEAFWORM on cotton in Oklahoma. BAGWORM adult in Kentucky.

Detection

A SPHAEROCERID FLY is new for Oklahoma. (p. 698).

For new county records see page 701.

Reports in this issue are for the week ending September 14 unless otherwise indicated.

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DISEASES

COMMON CORN RUST (Puccinia sorghi) - KANSAS - Continued most common corn disease in northeastern area where most corn in dent stage. Survey on corn (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NE> Pottawatomie	100	trace to 10
NE> Brown	100	10-25
NE> Nemaha	100	10-25

MISSOURI - Area> common corn rust prevalence/severity on commercial corn [dent] fields: Statewide> 100%/trace to 5%. Infections not evident until late August, little or no damage will result due to late host development stage. Pustules seem larger than in average year. (A. Foudin). OHIO - District> County= prevalence/severity on corn [host stage] leaves in number of commercial fields (f) or monitoring plots (m), week ending August 17: C> Pickaway= 20%/trace [dent] in 1f and WC> Clark= 100%/10% [dough] on Inbred H95 in 1m. (R. Hite). WEST VIRGINIA - District> County= prevalence on corn: NW> Tyler= trace in 0.8-ha and 20-ha fields, August 6, SW> Mason= light to moderate in 40-ha field, and Jackson= trace in 20-ha field, August 8. (R.L. Williams).

SOUTHERN RUST (Puccinia polysora) - NEBRASKA - District> County= prevalence/severity on corn [beginning to full dent] week ending September 8: E> Douglas= 90%/trace to 30%, Sarpy= 90%/15%, Cass= 95%/10%, SE> Otoe= 100%/20%, Nemaha= 100%/30%, Johnson= 100%/25%, Pawnee= 100%/10%, and Gage= 50%/5%. (S. Poe).

SOUTHERN LEAF BLIGHT (Bipolaris maydis) - OHIO - District> County= prevalence/severity on corn [dough] leaves week ending August 17: SW> Preble= 90%/5% [dough] in 1 commercial field. (R. Hite). MARYLAND - Area> status of this disease and NORTHERN LEAF BLIGHT (Helminthosporium turcicum) on field corn: S> prevalence 30-100% in all 60 fields surveyed. Corn matured and no yield reduction expected. (J.L. Hellman).

COMMON SMUT (Ustilago maydis) - KANSAS - District> County= status on corn: NE> Nemaha= trace in 1 field. (T. Sim, IV). NEBRASKA - District> County= prevalence on cornstalks and ears [beginning to full dent] week ending September 8: E> Douglas= trace and trace, Sarpy= 1% and trace, Cass= trace and trace, SE> Otoe= 0% and 0%, Nehama= 1% and 1%, Johnson= 0% and 0%, Pawnee= trace and trace, and Gage= 1% and trace. (S. Poe). INDIANA - Severe enough to cause loss in infected fields. District> County= prevalence on corn [host stage] in 1 field each, August 19-25: NC> Wabash= trace [soft dough], Elkhart= trace [dent], NE> Huntington, Noble, De Kalb, Allen, and Adams= trace [soft dough], Steuben= not seen [soft dough], and EC> Jay= trace [soft dough]. (R.A. Schall). WEST VIRGINIA - District> County= prevalence on corn: NW> Tyler= trace in 0.8-ha field, August 6, and SW> Mason= trace in 16-ha field, August 8. (R.L. Williams).

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus (Bipolaris) carbonum) - WISCONSIN - Asexual stage caused treatment in some seed corn fields due to severity. Susceptible lines of corn turning brown while more resistant lines remaining green. (O.L. Lovett). OHIO - District> County= asexual prevalence/severity on corn [host stage] leaves in number of commercial fields (f) or monitoring plots (m), week ending August 17: WC> Hardin= 50%/5% [blister] in 1f, Mercer= 100%/5%

[dent] in 1f, NW> Van Wert= helminthosporium leaf spot 90%/trace [dough] in 1f, Wood= trace to 100%/trace to 5% [dough] on several entries in 1m, and SW> Preble= 70%/10% [dough] in 1f. (R. Hite).

HELMINTHOSPORIUM BLIGHTS (Helminthosporium spp.) - OHIO - District> County= prevalence/severity on seed corn leaves in 1 commercial field each, week ending August 17: C> Delaware= 100%/40-75% in Inbred B-73 and Licking= 100%/60-75% in Inbred B-73. Severity estimates of individual species impossible due to severely blighted condition of plants. (R. Hite).

NORTHERN LEAF BLIGHT (Setosphaeria (Exserohilum) turcica) - MISSOURI - Area> asexual prevalence/severity on commercial corn hybrids: Southern one-half> trace/negligible, just beginning to appear. Most infections in association with Puccinia sorghi (common corn rust). (A. Foudin).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - OHIO - District> County= prevalence/severity on corn [host stage] leaves in number of commercial fields (f) or monitoring plots (m), week ending August 17: NW> Hancock= 50%/2-3% [blister] in 1f, Van Wert= 90%/trace [dough] in 1f, C> Pickaway= 50%/5% [dough] in 1f, and WC> Clark= 100%/10% [dough] on Inbred C 123 in 1m. (R. Hite).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - Survey on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage
NE> Pottawatomie	30-100	moderate	hard dough
NE> Nemaha	trace to 40	moderate	dough
EC> Morris	trace to 60	moderate	flower to dough

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Most prevalent sorghum disease in fields surveyed. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host stage
NE> Pottawatomie	trace to 80	light	hard dough
NE> Nemaha	20	light	dough
EC> Morris	trace	light	flower to dough
C> Marion	2	light	dough

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - Survey on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host stage
NE> Pottawatomie	trace to 40	light	dough
NE> Nemaha	trace	light	flower to dough
C> Marion	trace	light	dough

STEWART'S WILT (Erwinia stewartii) - OHIO - District> County= prevalence/severity on corn [host stage] leaves in number of monitoring plots (m) or commercial fields (f) week ending August 17: WC> Clark= 100%/20% in Golden Cross Bantom sweet corn [not given] in 1m and C> Pickaway= 100%/15-20% [dough] in special commercial hybrid in 1f. (R. Hite).

MAIZE DWARF MOSAIC VIRUS - KANSAS - District> County= status on sorghum: C> Marion= trace in 1 field. (T. Sim, IV). WISCONSIN - Infested late sweet corn in 19 counties week ending September 7. District> County= status on inbred seed

corn: SC> Rock= maize dwarf mosaic virus infected 1 field. (O.L. Lovett). WEST VIRGINIA - District> County= prevalence on corn: NW> Tyler= 2% in 20-ha field, August 6 and SW> Mason= 1-2% in 40-ha field, August 8. (R.L. Williams).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - MINNESOTA - First pupae of season in west-central and central districts week ending August 3. Averages in 19 counties and 96 corn fields (D.D. Sreenivasam):

District>	Predominant stage	Borers per 100 plants	Infested plants per 100	Average height (cm)
SW>	3rd instar	15	9	203
C>	4th instar	13	13	228
WC>	3rd and 4th instar	15	11	238

MINNESOTA - District> County= current average percent infested corn plants, average height, and number of European corn borers per 100 plants in number of fields surveyed (f): C> Carver, McLeod, Meeker, and Wright= 6%, 2.6 m, and 3 in 16f, 4th instar larvae predominant; and EC> Anoka, Chisago, Isanti, and Washington= 11%, 2.3 m, and 18 in 12f, 4th and 5th instar larvae predominant. (D.D. Sreenivasam). WISCONSIN - Adult activity fairly heavy as indicated by blacklight trap catches week ending September 7. Adults still heavy in dense grassy weeds in corn, potatoes, beans, and in alfalfa fields. District> County= counts per 10 sweeps of alfalfa, September 4: C> Waushara= 2 at Hancock, no eggs or larvae in late sweet corn and green beans due to intensive control. Many adults at lights in good condition indicated recent emergence, expect second flight to decrease rapidly. (O.L. Lovett).

Wisconsin - District> County= current European corn borer status on late sweet corn: EC> Fond du Lac= larvae fed in silk channels of 20% of ears in 1 planting and 10% in second planting. Earlier rains seemed to have interferred with control. No eggs observed due to intensive treatments of commercial sweet corn and snap beans in past week. Adults at most blacklight trap sites decreased significantly by September 10. (O.L. Lovett). MARYLAND - Area> egg masses and young second brood adults week ending August 3: Eastern Shore> combined counts up to 15% and Central> only 5%. District> County= catches per night July 27 to August 3: Eastern Shore> Worcester= 42, Somerset= 11, Wicomico= 10, Dorchester= 107, Talbot= 28, Caroline= 23, NC> Queen Annes= 74, Kent= 28, Cecil= 17, Hartford= 12, Baltimore= 6, and Central area> 3. (J.L. Hellman).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - OKLAHOMA - District> County= status on corn: Panhandle> Texas= stalk infestation averaged 60% in 1 field, occasional girdled stalk and overwintering larva found. (D.C. Arnold).

CORN EARWORM (Heliothis zea) - FLORIDA - District> County= status on sweet corn: C> Alachua= economic on 132 ha at Alachua, 6.1 ha lost August 30, daily controls began earlier than usual schedule that begins at silking, controls started when corn reached boot stage. (R.B. Baker). MARYLAND - Area> status on sweet corn week ending August 3: Statewide> infested ears 1-5%. District> County= catches per night July 27 to August 3: Eastern Shore> Worcester= 4, Somerset= 3, Wicomico= 1, Dorchester= 6, Caroline= 3, Talbot= 1, NC> Cecil= 1, and all other counties 0. Current status on corn [mostly dent]: S area> infestations heavy on 30-100% and C area> moderate on 20-40%. All stages present. Yield will not be reduced. (J.L. Hellman).

FALL ARMYWORM (Spodoptera frugiperda) - MISSOURI - District> County= status: NW> Harrison= larvae on sweet corn, fed in ears (Craig), C> Laclede and Pulaski= infestations light to moderate in 3 late corn and sorghum fields in whorls of 2-14% of plants. (R.L. Munson). FLORIDA - District> County= average adult pheromone trap catches: C> St. Johns= 15 per trap per week near corn and sorghum fields at Hastings. (R.B. Baker). KENTUCKY - District> County= larval status on late-planted corn: C> Adair= fed on ears; size ranged from large larvae inside ears to early instar larvae on silks. (H.G. Raney). MARYLAND - Area> status week ending August 3: Eastern Shore> larval feeding damage (10-30%) noticeable in 60% of late-planted field corn, damage heavier (30-100%) in 30 sweet corn fields (4,000 ha); controls poor (10-30%) in several areas, problems expected to continue. (J.L. Hellman).

ARMYWORM (Pseudaletia unipuncta) - MICHIGAN - District> County= status on corn and small grains week ending August 3: Upper Peninsula> Houghton (K. Raisanen), and NE> Alpena (M. Machett), Presque Isle (R. Long), and other northern counties= continued heavy, and EC> Arenac (R. Howes), Sanilac (R. Sieting), Saginaw (J. Weigold), and other southern counties= infestations more scattered. (R. Ruppel).

CORN ROOTWORMS (Diabrotica spp.) - WISCONSIN - Populations increased significantly (about 3 times statewide) compared to 1978. (O.L. Lovett).

Average Corn Rootworm Beetles Per Plant
(Counts made in August)

District	1978	1979
NW	0.7	0.3
NC	0.1	0.2
NE	0.1	0.6
WC	0.9	0.8
C	0.4	0.6
EC	0.8	2.5
SW	0.9	2.6
SC	0.9	3.7
SE	1.0	3.4

GREENBUG (Schizaphis graminum) - KANSAS - District> County= status on sorghum [bloom to dough]: C> Ellis, Marion, Rush, WC> Ness, Gove, NC> Jewell, Smith, Phillips, Rooks, NW> Norton, Decatur, Sheridan, and Graham= none found and C> Ellis, NC> Smith, Rooks, and NW> Decatur= old leaf damage moderate to heavy in some fields. (K.O. Bell, Jr.).

SMALL GRAINS

DISEASES

LOOSE SMUT (Ustilago nuda) - MINNESOTA - District> County= average percent infection on barley in 1979 (1978), from five 3.1-m rows in 5 fields: NW> Marshall= 2.2% (2.2%), Norman= 2.0% (1.8%), Pennington= 2.4% (1.9%), Polk= 2.0% (1.6%), Red Lake= 1.5% (1.9%), average 2.05% (1.9%), WC> Big Stone= 0.94% (0.51%), Douglas= 0.69% (0.63%), Grant= 1.98% (0.55%), Otter Tail= 2.28% (0.86%), Stevens= 0.68% (0.14%), Traverse= 0.46% (0.17%), and Wilkin= 0.08% (0.20%), average 1.03% (0.43%). (D.D. Sreenivasam).

INSECTS

HESSIAN FLY (Mayetiola destructor) - KANSAS - District> County= status on volunteer wheat in 1 field each, September 5-6: SC> Kiowa= eggs and small larvae light near Haviland and C> Barton= eggs trace. (G.A. Salsbury).

WHEAT STEM MAGGOT (Meromyza americana) - KANSAS - District> County= larval status on volunteer wheat in 1 field each, September 5-6: SC> Kiowa= trace and C> Barton= infested 50% of tillers. (G.A. Salsbury).

ARMYWORM (Pseudaletia unipuncta) - MARYLAND - See corn, sorghum, and sugarcane on page 688.

GRASSHOPPERS - MICHIGAN - Area> status on small grains week ending August 3: Northern Lower Peninsula> still severe in some counties. (L. Howard).

TURF, PASTURES, RANGELAND

INSECTS

BLACK CUTWORM (Agrotis ipsilon) - KENTUCKY - District> County= status on fescue seedlings [5-10 cm tall]: E> Letcher= larvae destroyed about 0.8 ha of reclaimed strip mine land. (R.A. Scheibner).

FORAGE LEGUMES

DISEASES

LEPTO LEAF SPOT (Leptosphaerulina briosiana) - WEST VIRGINIA - District> County= prevalence/severity on forage legumes August 8: SW> Mason= 40%/light to moderate, light defoliation. (R.L. Williams).

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - Continued most prevalent alfalfa disease in parts of northeastern and east-central areas, caused defoliation in some fields. Survey on alfalfa, defoliation indicated by asterisk (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host height (cm)
NE> Pottawatomie	100	severe*	38
NE> Nemaha	5	light*	20
EC> Geary	100	moderate*	30
EC> Morris	100	moderate*	30
EC> Chase	30	light	25

ALFALFA RUST (Uromyces striatus var. medicaginis) - KANSAS - District> County= prevalence on alfalfa: NE> Pottawatomie= trace in 1 field. (T. Sim, IV).

ALFALFA MOSAIC VIRUS - KANSAS - District> County= status on alfalfa: EC> Chase= trace in 1 field. (T. Sim, IV).

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - ARIZONA - District> County= larval status on alfalfa week ending September 7: C> Pinal= 41 per 100 sweeps and SW> Yuma= 10-60 per 10 sweeps. (T. Svoboda et al.). Currently: SW> Yuma= 3-300 per 100 sweeps. (J. Childers et al.).

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= counts per 10 sweeps of alfalfa: C> Payne and SC> Johnston= 5-10. (D.C. Arnold).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= counts per 10 sweeps of alfalfa: SC> Garvin= averaged 45. (D.C. Arnold).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= counts on alfalfa week ending September 7: C> Maricopa= larvae 4-220 per 100 sweeps, Pinal= larvae 241 and adults 16 per 100 sweeps, and SW> Yuma= larvae 20 per 10 sweeps. (T. Svoboda et al.). Currently: C> Maricopa= larvae 72 and adults 140 per 100 sweeps. (J. Childers et al.).

BEET ARMYWORM (Spodoptera exigua) - ARIZONA - District> County= counts per 100 sweeps of alfalfa week ending September 7: C> Maricopa= larvae 180 (T. Svoboda et al.); currently adults 22-120 (J. Childers et al.).

ALFALFA WEEVIL (Hypera postica) - MISSOURI - District> County= adult status on alfalfa: C> Laclede= active, 0-16 per 10 sweeps in 2 fields. (R.E. Munson).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= status on alfalfa week ending September 7: C> Pinal= nymphs 4 and adults 24-100 per 100 sweeps, Maricopa= adults 320 per 100 sweeps, and SW> Yuma= adults 17 per 10 sweeps. (T. Svoboda et al.). Currently: C> Pinal= nymphs 48 and adults 412 per 100 sweeps, Maricopa= larvae 39 and adults 3-500 per 100 sweeps, SW> Yuma= adults 16 per 10 sweeps at Parker, and SE> Graham= nymphs 11 and adults 11 per 10 sweeps. (J. Childers et al.).

POTATO LEAFHOPPER (Empoasca fabae) - MINNESOTA - District> County= nymphs and adults per sweep of alfalfa: EC> Anoka, Chisago, Isanti, and Washington= averaged 2 in 20 fields, third cutting underway in most counties. (D.D. Sreenivasam).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults on alfalfa week ending September 7: C> Maricopa= 100-700 and 200-1,100 per 100 sweeps, Pinal= 42 and 58-60 per 100 sweeps, and SW> Yuma= 1-10 and 5 per 10 sweeps. (T. Svoboda et al.). Currently: C> Maricopa= 80 and 15-280 per 100 sweeps and SW> Yuma= no data and 15 per 10 sweeps. (J. Childers et al.).

GRASSHOPPERS - MICHIGAN - Still severe on hay in some northern Lower Peninsula counties week ending August 3 (L. Howard) and could appear in other fields in southern area (R. Ruppel). District> County= status on alfalfa: SW> Kalamazoo= heavy in 1 field. (E. Gemrich).

SOYBEANS

DISEASES

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - KANSAS - Survey on soybeans (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NE> Pottawatomie	40	light
NE> Nemaha	trace	light
EC> Geary	trace	light

NEBRASKA - District> County= percent of soybean [bean developing to full size]] plants with soybean downy mildew infection on pods week ending September 8: SE> Otoe= 3%, Nemaha= 6%, Johnson= 4%, and Pawnee= trace. No foliar symptoms observed. (S. Poe).

INDIANA - District> County= soybean downy mildew prevalence/severity on soybeans [host stage] in 1 field each, August 19-25: NC> Wabash= 99%/1% [seed development], Elkhart= 99%/1% [pod 2 cm], NE> Huntington= 99%/1% [pod 2 cm], Noble= 15%/trace [seed development], Steuben= 99%/5% [seed development], De Kalb= 99%/2% [seed development], Allen= 80%/trace [seed development], Adams= 99%/1% [seed development], and EC> Jay= 99%/1% [pod 2 cm]. (R.A. Schall).

WEST VIRGINIA - District> County= prevalence/severity on soybeans week of August 8: SW> Mason= 50-80%/moderate in 16-ha and 20-ha fields, and Jackson= 10%/moderate in 10-ha field. (R.L. Williams).

SOYBEAN BROWN SPOT (Septoria glycines) - NEBRASKA - District> County= prevalence/severity on soybeans [bean developing to full size] week ending September 8: E> Douglas= 0%/0%, Sarpy= trace/3%, Cass= 10%/5%, Lancaster= 35%/5%, SE> Otoe= 4%/5%, Nemaha= trace/5%, Johnson= 0%/0%, Pawnee= 5%/5%, and Gage= trace/2%. (S. Poe). INDIANA - District> County= prevalence/severity on soybeans [host stage] in 1 field each, August 19-25: NC> Wabash= 95%/20% [seed development], Elkhart= 99%/7% [pod 2 cm], NE> Huntington= 99%/10% [pod 2 cm], Noble= 84%/5% [seed development], Steuben= 60%/5% [seed development], De Kalb= 81%/5% [seed development], Allen= 80%/10% [seed development], Adams= 81%/5% [seed development], and EC> Jay= 95%/15% [pod 2 cm]. (R.A. Schall).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Survey on soybeans (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NE> Pottawatomie	100	moderate
NE> Nemaha	10	light
EC> Geary	trace	light

NEBRASKA - District> County= soybean bacterial blight prevalence/severity on soybeans [bean developing to full size] week ending September 8: E> Douglas= 60%/3%, Sarpy= 35%/5%, Cass= 50%/5%, Lancaster= 50%/15%, SE> Otoe= 20%/5%, Nemaha= 15%/5%, Johnson= 25%/5%, Pawnee= 25%/10%, and Gage= 20%/3%. (S. Poe). INDIANA - District> County= prevalence/severity on soybeans [host stage] in 1 field each, August 19-25: NC> Wabash= 10%/1% [seed development], Elkhart= 75%/5% [pod 2 cm], NE> Huntington= trace/2% [pod 2 cm], Noble= 90%/3% [seed development], Steuben and De Kalb= trace/trace [seed development], Allen= 95%/1% [seed development], Adams= 60%/trace [seed development], and EC> Jay= trace/1% [pod 2 cm]. (R.A. Schall).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - KANSAS - Most prevalent disease in soybean fields surveyed. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)
NE> Pottawatomie	100	light
NE> Nemaha	trace to 30	light
EC> Geary	trace	light
EC> Chase	100	moderate

INDIANA - District> County= prevalence/severity on soybeans [host stage] in 1 field each, August 15-25: NC> Wabash= trace/trace [seed development], Elkhart, NE> Huntington= not seen [pod 2 cm], Noble, Steuben, Allen, and Adams= not seen [seed development], De Kalb= trace/trace [seed development], and EC> Jay= not seen [pod 2 cm]. (R.A. Schall).

SOYBEAN CYST NEMATODE (Heterodera glycines) - MISSOURI - New county records. District> County= infestation from soybeans in commercial fields: NE> Clark= at Wayland, August 24, 1979, by E. Meek; Shelby= at Shelbyville, August 24, 1979, by R. Kampschimdt; and Monroe= at Monroe City, August 24, 1979, by C. Rosenkraus. All determined by T. Schubert and E. Palm. Infection at Wayland represents northernmost limit in State. (A. Foudin).

INSECTS

CORN EARWORM (Heliothis zea) - OKLAHOMA - District> County= status on soybeans: NE> Nowata= moderate to heavy and SC> Atoka= averaged less than 1 per 0.3 row m. (D.C. Arnold). NORTH CAROLINA - Area> status on soybeans week ending August 31: Coastal Plain> larval populations peaked. Hot temperatures induced rapid development. Infestations above threshold levels in 80+% of fields with open canopies (about 60%) when blooming. Population levels ranged from less than 1 to 15 per 0.3 row m. Foliage loss up to 80% in scattered fields from Northern Coastal district> Edgecombe and Martin County area southward. Severe defoliation in extreme Northern Coastal Plain counties possible in isolated fields but not expected to reach levels in counties south of Johnston and Wilson Counties. Delayed controls compounded problem. Pupation occurred in many southern counties, expected to begin decreasing population in northern county fields before September 10. Poor survey and/or controls resulted in severe conditions. (T. Hunt). VIRGINIA - District> County= status on soybeans: E> Westmoreland= treatments applied to 121 ha. (N.P. Ptucha). MARYLAND - Area> status: Statewide> no significant losses expected due to wet weather and closed canopy soybeans. (J.L. Hellman).

BEET ARMYWORM (Spodoptera exigua) - SOUTH CAROLINA - District> County= larvae per 0.3 row m on soybeans: S> Beaufort= averaged 13 in 16 ha near Bluffton. (J. Queener, J.W. Chapin).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= status on soybeans: SC> Atoka= 5-10 per 0.3 row m, NC> Kay= moderate, defoliation about 15% in 1 area, and SW> Tillman= light. (D.C. Arnold). MISSISSIPPI - Area> status on late soybeans: Statewide> larvae increased in many areas, limited acreage treated. (R. Anderson).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status on soybeans: C> Alachua and Levy= 1,214 ha of 1,619 ha needed treatment, many larvae infected by Nomuraea rileyi (an insect fungus) which slowed population increase (R.B. Baker), NW> Jackson= populations peaked, past critical stage, began to senesce, few fields need treatment (R.K. Sprenkel), Gadsden= most growers treated twice, and Jackson= 3 treatments in some areas. (D.C. Herzog).

SOYBEAN LOOPER (Pseudoplusia includens) - FLORIDA - District> County= status on soybeans: NW> Gadsden= up to 5 per 0.3 row m, C> Alachua and Levy= about 40 ha needed treatment (R.B. Baker), NE> Madison= larvae caused economic damage to 2 fields at Lee in late August, control difficult (D.E. Stokes, P. Lehman). SOUTH CAROLINA - District> County= larvae on soybeans: S> Beaufort= 26 per 2 row m in 16-ha field at Bluffton, defoliation 20% at bloom. (J. Queener, J.W. Chapin).

MEXICAN BEAN BEETLE (Epilachna varivestis) - INDIANA - District> County= status in soybean fields: SC> Lawrence= third generation eggs noted. (L. Bledsoe). VIRGINIA - District> County= status on soybeans: E> Westmoreland= treatment applied to about 80 ha week ending September 1, another 121-202 ha currently treated. (N.P. Ptucha). MARYLAND - Area> status on soybeans: Eastern Shore> about 2,000 ha treated past 10 days for adult and larval control. Pupation continued in all areas. Defoliation 10-40% in 60% of fields. District> County= status: NC> Queen Annes, Kent, and Eastern Shore> Caroline= heaviest infestations. (J.L. Hellman).

BEAN LEAF BEETLE (Cerotoma trifurcata) - NORTH CAROLINA - Statewide defoliation generally subeconomic. District> County= defoliation (up to 25%) on soybeans [pod-filling]: Northeastern counties and Southern Coastal> Bladen= heaviest concentration, Northern Coastal> Martin and Washington and Southern Coastal> Bladen= about 14% and 5%, respectively, of fields reached 15% after-bloom threshold. (T. Hunt).

GREEN STINK BUG (Acrosternum hilare) - MISSISSIPPI - Area> status of this species, BROWN STINK BUG (Euschistus servus), and SOUTHERN GREEN STINK BUG (Nezara viridula) on soybeans: Statewide> increased mostly in southern area, economic in localized areas. (R. Anderson).

SOUTHERN GREEN STINK BUG (Nezara viridula) - FLORIDA - District> County= status of mainly this species on soybeans: NW> Jackson= near threshold in Campbellton area, treatments may be needed. (R.K. Sprenkel).

PEANUTS

DISEASES

PEANUT RUST (Puccinia arachidis) - FLORIDA - District> County= status on peanuts August 31: NW> Jackson= in many fields near Marianna, no problem but can spread rapidly. (J.E. Arnold).

INSECTS

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Area> status on peanuts week ending August 31: Northern Coastal Plain> populations increased rapidly August 27-30 in fields. Larvae 4 per 0.3 row m in 3 of 10 fields, defoliation light to moderate. Late and early instar larvae in all fields. Coastal Plain area> large larvae and pupae noted, particularly in Bladen and Sampson County areas. (T. Hunt).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= average per 0.3 row m on peanuts: C> Alachua and Levy= 3-4, treatment needed on 121 ha of 809.4 ha. Treatment recommended when population slightly below threshold of 4 per 0.3 row m. (R.B. Baker).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - OKLAHOMA - District> County= infestations on variety of peanuts: SC> Marshall= averaged 50% on Spanhoma and 13.5% on Florunner. (D.C. Arnold).

REDNECKED PEANUTWORM (Stegasta bosqueella) - OKLAHOMA - District> County= infested peanut terminals: SC> Marshall= 37-50%. (D.C. Arnold).

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - Status on cotton September 3-7 (E.P. Boring, III):

District> County	Pest stage or damage	Number	Unit sample
Northern Low Plains> Dickens	damaged squares	up to 2%	
Northern Low Plains> Hardeman	damaged squares	0-1%	
Northern Low Plains> Motley	damaged squares	0-10%	
Northern Low Plains> Kent	adults	500	0.4 ha
Southern Low Plains> Runnels at Wingate	punctured squares	15-80%	

OKLAHOMA - First noticeable boll weevil infestation in 1979. District> County= percent punctured squares on cotton: SW> Jackson= averaged 6% in 1 field. (D.C. Arnold). MISSISSIPPI - Area> status on late-planted cotton: Central and southern Hill Section> continued to cause problems. Care should be taken to prevent damage to bolls which are set. (R. Anderson).

BOLLWORMS (Heliothis spp.) - TEXAS - BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) status on cotton August 29 to September 7 (R.E. Glodt):

District> County	Eggs	Larvae	Damaged squares	Unit sample (100)
Blacklands> Williamson & Milam	2-90			terminals
Northern Low Plains> Dickens	1		0-8%	terminals
Northern Low Plains> Hardeman	up to 20			terminals
Northern Low Plains> Wichita			up to 4%	
Northern High Plains> Floyd at South Plains			problem light	
Cross Timbers> Young				
Southern High Plains> Crosby & Northern High Plains> Floyd		15-90		plants
Northern High Plains> Hale	5-40 (per 100 terminals)	20-280 (per 100 plants)	5-30%	
Southern High Plains> Martin	0-2	0-3	0-13	terminals
Southern High Plains> Howard	0-1	1-9	1-6	terminals
Southern High Plains> St. Lawrence area	0-6	0-2	0-4	terminals
Trans-Pecos> El Paso	1-4%			

OKLAHOMA - District> County= bollworm eggs and larvae per 100 cotton terminals: SW> Jackson, Tillman, Harmon, Greer, and Kiowa= 0-22 and 0-10, C> Grady= averaged 22 and 10, damaged squares 9%, and SC> Garvin= no data and averaged less than 1. (D.C. Arnold). LOUISIANA - Area> status of BOLLWORM (Heliothis zea) on

cotton: NE> eggs 100 on 100 plants in some fields September 3, varied down to occasional egg in many fields. District> Parish= status of TOBACCO BUDWORM H. virescens on cotton: NC> Caldwell= heavy in some fields week of September 3, occasional in other parts of State. (J.S. Tynes). MISSISSIPPI - Heliothis spp. continued highly variable from field to field, problems confined to late-planted "green" cotton. Most early-planted cotton matured to nonattractive stage. District> County= status: EC> Winston and Oktibbeha= eggs 0-30% and larvae 0-16% on late-planted cotton. (R. Anderson).

FALL ARMYWORM (Spodoptera frugiperda) - MISSISSIPPI - Area> status on cotton: Statewide> larvae continued to occur in majority of cotton fields. District> County= status: NC> Marshall, Lafayette, Grenada, and Upper Delta> Tallahatchie= heavy, caused boll damage. (R. Anderson).

COTTON LEAFWORM (Alabama argillacea) - OKLAHOMA - First of season. District> County= status on cotton September 11: C> Payne= 1 large larva collected at Perkins. (D.C. Arnold). MISSISSIPPI - District> County= status: EC> Oktibbeha= larvae moderate to heavy on maturing cotton, up to 10 per plant observed. Defoliation heavy in small spots in fields. (D.B. Hogg).

TOBACCO

DISEASES

BLUE MOLD (Peronospora tabacina) - MARYLAND - First occurred on field planted Type 32 tobacco in 20-50% of fields during June and July. District> County= status week ending August 3: S> Prince Georges, Anne Arundel, Charles, St. Marys, and Calvert= disappeared with onset of hot weather. (J.L. Hellman).

MISCELLANEOUS FIELD CROPS

DISEASES

SUNFLOWER RUST (Puccinia helianthi) - SOUTH DAKOTA - District> County= prevalence/severity on sunflower [ray petals dropped, bracts turning brown] in 1+ fields if not stated: NE> Codington= 100%/5-20% in 1 field, Hamlin= 100%/trace to 3%, Day= 100%/5%, Marshall= 100%/trace to 2%, and EC> Brookings= 100%/10-30% (V.L. Jons). District> County= prevalence/severity on sunflower [ray petals dropped, bracts turning brown]: NORTH DAKOTA - District> County= prevalence/severity on sunflower [ray petals dropped, bracts turning brown]: EC> Cass= 100%/1-2% and SE> Sargent= 100%/1-10%. (V.L. Jons).

SUNFLOWER LEAF SPOT (Septoria helianthi) - SOUTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: NE> Roberts= 100%/trace to 5%, Grant= 100%/trace to 3%, Codington= 100%/trace to 30%, Deuel= 100%/trace to 5%, and Marshall= 50%/trace to 1%. (V.L. Jons). NORTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: EC> Cass= 100%/trace to 2%, SE> Ransom= 100%/trace to 2%, and Sargent= 100%/5-10%. (V.L. Jons).

SCLEROTINIA STEM ROT (Sclerotinia sclerotiorum) - SOUTH DAKOTA - District> County= prevalance of wilt and head rot symptoms on sunflowers [ray petals dropped, bracts turning brown] in 1 field each: NE> Grant= 1% and Codington= 1%. (V.L. Jons).

SUNFLOWER BLACK STEM (Phoma oleracea var. helianthi-tuberosi) - SOUTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: NE> Roberts= 50-80%/1-2%, Grant= 50%/1-5%, Codington= 10%/1-5%, Deuel= 50%/1-2%, Day= 50-90%/1-5%, and EC> Brookings= 50%/1-2%. (V.L. Jons). NORTH DAKOTA = District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: EC> Cass= 50%/1-10%, SE> Ransom= 90%/10%, and Sargent= 99%/1-10%. (V.L. Jons).

AN ALTERNARIA LEAF SPOT (Alternaria sp.) - SOUTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: NE> Roberts= 50-100%/trace to 10%, Grant= 75%/trace to 2%, Codington= 100%/trace to 20%, Deuel= 100%/trace to 10%, Day= 50-100%/trace to 10%, and Marshall= 100%/trace to 5% and EC> Brookings= 80-100%/trace to 5%. (V.L. Jons). NORTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: EC> Cass= 100%/trace to 5% and SE> Sargent= 100%/trace to 2%. (V.L. Jons).

A POWDERY MILDEW (Erysiphe cichoracearum) - SOUTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: NE> Roberts= 75%/trace to 5%, Codington= 60%/trace to 5%, Deuel= 100%/trace to 10%, Day= 0%/trace to 5%, and EC> Brookings= 100%/trace to 5%. (V.L. Jons). NORTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropped, bracts turning brown]: SE> Sargent= 75%/trace to 10%. (V.L. Jons).

POTATOES, TOMATOES, PEPPERS

INSECTS

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - FLORIDA - District> County= status: C> St. Johns= infested 10% of 150 untreated eggplants at Hastings. (R.B. Workman).

POTATO TUBERWORM (Phthorimaea operculella) - FLORIDA - District> County= status: C> St. Johns= infested and damaged 150 untreated eggplants at experiment station at Hastings. (R.B. Workman).

COLE CROPS

INSECTS

IMPORTED CABBAGEWORM (Pieris rapae) - MAINE - County= status on cabbage: Penobscot= larvae severely infested several large heads with about 150 penetrating at least outer 3 cm No adults noted past month. (A. Gall).

CUCURBITS

DISEASES

CUCURBIT SEPTORIA LEAF SPOT (Septoria cucurbitacearum) - WISCONSIN - District> County= status on commercial cantaloupe week ending September 7: C> Juneau= serious in 1 field. (O.L. Lovett).

CUCURBIT BACTERIAL WILT (Erwinia tracheiphila) - WISCONSIN - District> County= status week ending September 7: C> Juneau= moderate on commercial cantaloupe in 1 field and NW> Bayfield= damaged cucumbers. (O.L. Lovett).

DECIDUOUS FRUITS AND NUTS

DISEASES

APPLE BLOTCH (Phyllosticta solitaria) - WISCONSIN - District> County= status on fruit week ending September 7: SE> Walworth= uncommon in State, in sample from homeowner; some varieties more susceptible than others. (O.L. Lovett).

INSECTS

CODLING MOTH (Laspeyresia pomonella) - INDIANA - District> County= counts in 5 pheromone or live-baited traps: SW> Knox= 15 September 6-12 (T. Mouzin) and WC> Tippecanoe= 0 September 6-14 (R.W. Meyer). OHIO - District> County= status July 17-23: NE> Wayne and NC> Ashland= 16 in 4 pheromone traps. (F. Hall).

PECAN WEEVIL (Curculio caryae) - MISSISSIPPI - Adults continued to emerge in pecan orchards statewide. District> County= counts week ending September 7: EC> Lowndes= 68 from 24 cone emergence traps. (W.W. Neel).

EUROPEAN RED MITE (Panonychus ulmi) - OHIO - District> County= status on Red Delicious spur apples week ending July 27: C> Fairfield= population increase leveled off at 30 per leaf with average of 16 bronzed clusters per tree, above economic threshold. (R.P. Holdsworth).

FOREST AND SHADE TREES

INSECTS

NATIVE ELM BARK BEETLE (Hylurgopinus rufipes) - NORTH DAKOTA - New county records. District> County= collection data from multilure pheromone sticky board traps: NE> Walsh north of Edinburg and C> Wells west of Bremen= adults on American elm and Foster= on green ash 2.4 km west of Bordulac on State Highway 200, September 12, 1979. All collected and determined by C.G. Scholl. (C.G. Scholl).

A SCOLYTID BEETLE (Pseudopityophthorus minutissimus) - PENNSYLVANIA - District> County= status on chestnut oak week ending August 31: SC> Bedford= adults very common on at least 4 ha at Southampton, damage to trees estimated at 100%. (J. Quimby).

LOCUST LEAFMINER (Odontota dorsalis) - PENNSYLVANIA - Area> status on black locust during August: SE, SC, and SW> larvae and adults very common, caused 75-100% damage. (J. Quimby).

BAGWORM (Thyridopteryx ephemeraeformis) - KENTUCKY - First adult of season. District> County= status: Bluegrass> Fayette= collected in blacklight trap. (P.E. Sloderbeck).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - OKLAHOMA - District> County= counts per head of cattle: SE> McCurtain= averaged 100, Latimer= 200-400, and EC> Adair= 100-200. (D.C. Arnold). NEBRASKA - District> County= status on untreated cattle: SW> Lincoln and C> Dawson= averaged 525+ per head. (Campbell). WISCONSIN - District> County= counts per side on cattle: SC> Rock, Jefferson, and C> Wood=

3-10. (O.L. Lovett). FLORIDA - District> County= average per head, September 7: C> Alachua= 368 in small beef herd at Newberry. (D. Boyd).

FACE FLY (Musca autumnalis) - NEBRASKA - District> County= status on untreated cattle: SW> Lincoln and C> Dawson= averaged 9.5 per face. (Campbell). WISCONSIN - District> County= counts per face on cattle: SC> Rock, Jefferson, and C> Wood= less than 5. (O.L. Lovett).

STABLE FLY (Stomoxys calcitrans) - NEBRASKA - District> County= status on untreated cattle: SW> Lincoln and C> Dawson= averaged 12.5 per leg. (Campbell). WISCONSIN - District> County= counts per side on cattle: SC> Rock, Jefferson, and C> Wood= 1-5. (O.L. Lovett).

MOSQUITOES - MINNESOTA - Aedes spp. larvae increased, indicated developing brood; total number of adults captured in light traps decreased, except Aedes trivittatus. Area> biting species in order of abundance; adult light trap collections; and larval collections week of July 20-26: Metropolitan Mosquito Control district> Aedes vexans, A. trivittatus, and Aedes stimulans; A. vexans 74%, Coquillettidia perturbans 18%, and A. trivittatus 1%; and A. vexans 28% and Aedes spp. 28%. (D.D. Sreenivasam).

A SPHAEROCERID FLY (Leptocera vagans) - OKLAHOMA - New State Record. District> County= collection data from feed lot: Panhandle> Texas= adults 11 km north of Hitchland, July 10, 1979, by W.B. Massey, determined by G. Steyskal. (D.C. Arnold).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A EULOPHID WASP (Tetrastichus julis) - OHIO - Parasitism of CEREAL LEAF BEETLE (Oulema melanopus) larvae (C.J. Cunningham et al.):

District> County	Parasitism (%)	Crop	Date collected
SE> Morgan	100	oats	Jun 4
EC> Tuscarawas	100	oats	May 30
EC> Harrison	66	oats	Jun 2
EC> Harrison	72	wheat	Jun 2
EC> Harrison	36	oats	Jun 2
EC> Jefferson	50	oats	Jun 4
SW> Clermont	52	oats	Jun 1
C> Pickaway	44	oats	Jun 1
C> Knox	100, 33, 71	wheat	Jun 4
WC> Shelby	100	oats	Jun 2

FEDERAL AND STATE PROGRAMS

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - SOUTH CAROLINA - Area> status on cotton: Statewide> weevils still present in many fields. (J.W. Chapin, D.R.

Johnson). Catches in pheromone traps August 25 to September 7 (M. Alexander et al.):

District> County	Maximum per trap	Minimum per trap	Mean number per trap
E> Marlboro	106	0	5
E> Marion	51	2	15
E> Florence	18	0	7
E> Dillon	107	0	8
E> Darlington	154	0	7

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - New county record. District> County= collection data from oats: EC> Door= near Sturgeon Bay, July 27, 1979, by H. Hauser, determined by R.E. White. (O.L. Lovett).

GRASSHOPPERS - CALIFORNIA - District> County= status of Melanoplus devastator: Sierra Mountains> El Dorado= adults averaged 8-20 per 0.8 sq m, caused considerable damage to marginal rangeland grasses in western portion in lower foothills on about 8,900 ha, also heavily damaged Christmas tree farms, family orchards, and gardens in western portion in lower elevation; and Sacramento Valley> Butte= averaged 3 per 0.8 sq m in grasses around young ponderosa and sugar pine trees, 1-2 per tree, caused damage to terminal growth in area about 5 sq km at Chico Tree Improvement Center. (E. Delfino, J. Hogden).

OREGON - Area> mostly Melanoplus sanguinipes status on rangeland: Central> adult surveys indicate 445,192.1 ha infested with 8 or more per 0.8 sq m and 154,550 ha infested with 3-7 per 0.8 sq m. (J. Mellott).

County	Hectares (8 or more per 0.8 sq m)	Hectares (3-7 per 0.8 sq m
Wasco	68,246.4	54,859.4
Jefferson	138,808	809.4
Wasco and Jefferson at Warm Springs Indian Reservation	-	21,044
Sherman	19,425	30,352
Wheeler	55,782.1	14,504
Grant	130,536	1,416
Crook	32,395	20,234
Deschutes	-	11,331

NEVADA - Melanoplus sanguinipes, Camnula pellucida, and Oedaleonotus enigma enigma, primarily former species with localized areas of latter species on rangeland and M. sanguinipes and C. pellucida on cropland, adult surveys and revised acreage infested (8+ per 0.8 sq m) indicate potential infestations for 1980 (R.C. Bechtel):

District> County	Hectares rangeland	Hectares cropland
NE> Elko	161,778	12,716
NE> Eureka	75,749.3	3,019
NE> Lander	0	0
NE> White Pine	3,990	944.9
W> Humboldt	15,835	0
W> Pershing	4,467.7	16
W> Washoe	3,197	0

KANSAS - District> County= grasshopper status: WC> Logan, Wallace, Wichita, Greeley, Scott, and SW> Hamilton= plant emergence 5-50% in wheat fields [nearly all 1 tiller]. Damage to stands along field margins usually not found and numbers in adjacent stubble fields usually fewer than 2 per 0.8 sq m and consisted mainly of second generation Melanoplus sanguinipes with some Melanoplus differentialis and Melanoplus bivittatus. M. sanguinipes ranged 2nd instars through adults (some mating) but mostly 3rd instars to adults. Volunteer wheat usually present, sometimes heavy, in old stubble fields and may keep most grasshoppers in fields rather than migrating to adjacent planted fields. WC> Logan= 2 wheat fields with 2-4 m wheat [1 tiller] margins eaten to ground where grasshoppers migrated from weedy road ditch. Grasshoppers in ditches averaged 4-5 per 0.8 sq m, mainly M. differentialis but some M. bivittatus, M. sanguinipes, and Melanoplus turnbulli also present. Situation similar in Hamilton County near Syracuse [2 tiller early wheat] and Wichita County [5 tiller early wheat]. WC> Greeley= in 1 isolated case, 3-5 m of wheat [1 tiller] eaten to ground mainly by Aulocara elliotti and Ageneotettix deorum which migrated from adjacent dry and overgrazed pasture. (K.O. Bell, Jr.).

MINNESOTA - District> County= Melanoplus femurrubrum (60%), Melanoplus bivittatus (30%), and Mermiria sp. (10%) average per 0.8 sq m of alfalfa: EC> Anoka, Chisago, Isanti, and Washington= less than 1 per 0.8 sq m in 20 fields, and 8 per 0.8 sq m in field margins. (D.D. Sreenivasam).

GYPSY MOTH (Lymantria dispar) - OHIO - District> County= status as of July 23: SW> Montgomery= apparently 2 foci of infestations in 2.5-sq m area source of 141 adults caught in 25 trap sites. Only area in State where adults detected this year, largest number trapped to date. (W.K. Roach).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= percent larval infested bolls week ending September 7: C> Maricopa= 8% in 2 fields and SW> Yuma= 3-20%. Pheromone trap catches per trap per day: C> Maricopa= 0-18 and SW> Yuma= 2-110. (C. Mullis et al.). Current status: SE> Yuma= infestation 0-16% in cotton bolls. Adult pheromone trap catches per trap per day: SW> Yuma= 2-102 and C> Maricopa= 0-38. (J. Neff et al.).

SCREWWORM (Cochliomyia hominivorax) - Total of 17 cases reported from continental United States, July 8 to September 1 as follows: Texas 1, New Mexico 4, Arizona 11, California 1. Total of 1,034 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 1,507 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 455,651,090 as follows: Texas 256,143,890; New Mexico 45,578,400; Arizona 147,668,800; California 1,260,000. Total of 2,312,753,346 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

DETECTION

NEW STATE RECORD

INSECTS

A SPHAEROCERID FLY (Leptocera vagans) - OKLAHOMA - Texas County. (p. 698).

NEW COUNTY RECORDS

DISEASES

SOYBEAN CYST NEMATODE (Heterodera glycines) - MISSOURI - Clark, Shelby, and Monroe. (p. 692).

WHEAT ROOT-KNOT NEMATODE (Meloidogyne naasi) - CALIFORNIA - District> County= collection data from Juncus sp. (a rush): Northern Coast> Humboldt= at Eureka, August 7, 1979, by C. Krass, and determined by A. Weiner. (C.S. Papp).

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - WISCONSIN - Door. (p. 699).

A DIASPIDID SCALE (Diaspis dignus) - FLORIDA - District> County= collection data from Eryngium yuccifolium (button snakeroot): S> Hardee= adults on stems and leaves near Lemon Grove, July 26, 1979. Collected and determined by J. Felty and Z. Smith; confirmed by A.B. Hamon. Plants growing in wild. (J. Felty, Z. Smith).

NATIVE ELM BARK BEETLE (Hylurgopinus rufipes) - NORTH DAKOTA - Walsh, Wells, and Foster. (p. 697).

A PSYLLID (Trioza tripunctata) - FLORIDA - District> County= collection data from Rubus cuneifolius (sand blackberry plant): NE> Taylor= nymphs found damaging leaves at clearing in wooded area, August 29, 1979, by E. Nickerson, R. Brown, and F. Urso, and determined by F.W. Mead. Plants in wild for some time. (E. Nickerson).

LIGHT TRAP COLLECTIONS

	Temperature °C	Precipitation (MM)	Type of trap	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Pseudaletia unipuncta (armyworm)	Spodoptera frugiperda (fall armyworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mamestra quinquemaculata (tobacco hornworm)	Mamestra sarta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera praefica (western yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																						
Mesa 9/3-9			BL					4	1					2		1	4	1069		9	71	
CALIFORNIA																						
Bellota 9/10	15-37		BL	2	1				3							1	2	415			3	
Manteca 9/11	19-39		BL	2				33	5			1				1	10	515			5	
FLORIDA																						
Gainesville 9/6-12			BL					5									1	1	9	1		
KANSAS																						
Haviland 9/6			BL	4		0			0						49		19		4			
Hays 8/31, 9/5, 7, 11			BL	6		3			15						6		56		0			
KENTUCKY																						
Lexington 9/11-12			BL	1											6		3		4	7		
MISSISSIPPI																						
Stoneville 9/7-13	14-32	0.25	2BL	29	2			3	1	110				1			158	13	64	10	480	
NEBRASKA																						
Clay Center 9/7-13			BL	5			88			44					91							
OHIO (Counties)																						
Fairfield 9/4-10			BL	143						2					14	13	358		29	11		
Wayne 9/6-12			3BL	3						3					56	32	31					
PENNSYLVANIA (Regions)																						
Central 9/6-11			BL	1						4					1		14		5			
Northwest 9/6-11			BL	1												1	1					
WISCONSIN																						
Lancaster 9/6-12			BL	0						1					11	1						
Mazomanie 9/6-12			BL	1						1					44		5					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Artacris macrorhynchus (Nalepa) an eriophyid mite Det. H.H. Keifer	adult	on leaves of Acer from aircraft quarters	France	Kennedy Airport	--
Pityogenes bistridentatus (Eichhoff) a scolytid beetle Det. D.M. Anderson	adult	in dunnage with wire	France	New York	NY
Premnotrypes sp. a weevil Det. D.M. Anderson	larval	in potatoes from baggage	Peru	San Antonio	TX
Pyropotosia pryeri Janson a scarab Det. R.K. Kunishi	adult	with military aircraft	Midway	Honolulu	--
Taeniothrips eucharii (Whetzel) a thrips Det. S. Nakahara	adult	on Lycoris bulbs from cargo	Japan	Los Angeles	CA
Trypodendron domesticum (Linnaeus) a scolytid beetle Det. D.M. Anderson	adult	in wood pallets from cargo	Netherlands	Jacksonville	FL
Wasmannia auropunctata (Roger) little fire ant Det. D.R. Smith	pupal adult	on leaves of Tillandsia plants from baggage	Costa Rica	Los Angeles	CA
Vaginulus occidentalis (Guilding) a veronicellid slug Det. F. Matthews	adult	on leaves of Dracaena cuttings from cargo	Jamaica	Miami	FL

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

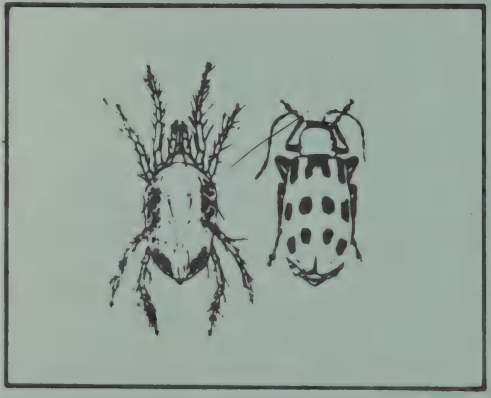
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

September 28, 1979
Vol. 4
No. 36

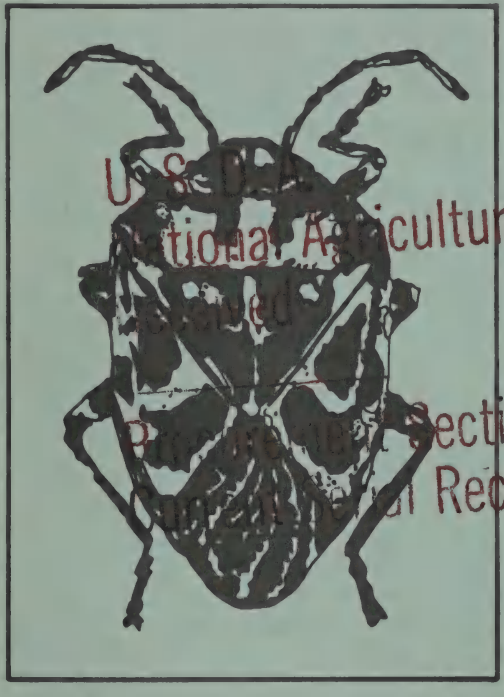
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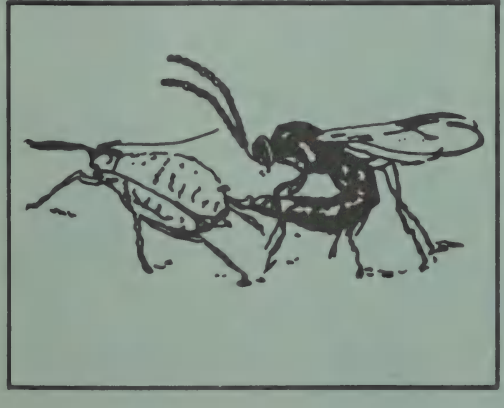
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

GREENBUG on young wheat in south-central parts of Kansas and South Dakota. (p. 709).

Detection

New county record on page 718.

Some First Occurrences of the Season

CLAYBACKED CUTWORM, PALE WESTERN CUTWORM, and a NOCTUID MOTH in Kansas. DUTCH ELM DISEASE in Oklahoma.

Special Reports

Pink Bollworm Quarantine. Map. Centerfold.

Reports in this issue are for the week ending September 21 unless otherwise indicated.

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Pink Bollworm Quarantines. Map. Centerfold.

CORN, SORGHUM, SUGARCANE

DISEASES

HELMINTHOSPORIUM LEAF SPOT (Helminthosporium carbonum) - IOWA - District> County= prevalence/severity on corn [dent] in number of commercial fields (f) or monitoring plots (m), September 1-14: SC> Warren= 10-25%/trace to 3% in 1f, Clarke= trace/trace in 1f, Ringgold= 10%/trace to 3% on 'W64A X W117' in 1m, Lucas and Wayne= trace to 10%/3% in 2f, SE> Louisa= 10%/trace in 1f, EC> Cedar= 75%/trace to 5% in 1 increase field, Scott= trace/trace in 1f, Clinton= 25%/trace to 3% in 1f, NE> Delaware= trace/5% in 1f, Dubuque= 5%/5% in 1f, NC> Franklin= trace to 5%/trace to 3% in 1f, and C> Tama= 20%/trace to 3% in 1f. (D.J. Williams).

NORTHERN LEAF BLIGHT (Helminthosporium turcicum) - IOWA - District> County= prevalence/severity on corn [dent] in 1 commercial field each, September 1-14: EC> Scott= trace to 3%/trace, Clinton= 25%/trace, SE> Louisa= 10%/trace, NE> Delaware= trace/trace, and C> Tama= 5%/trace. (D.J. Williams).

COMMON SMUT (Ustilago maydis) - IOWA - District> County= prevalence/severity on corn [dent] in number of commercial fields (f) or monitoring plots (m), September 1-14: SC> Warren= 100%/trace to 10% in 2f, Clarke= 100%/trace to 3% in 1f, Lucas= 100%/trace in 1f, Decatur= 100%/trace to 3% in 1f, Ringgold= 100%/trace on 'A632 Ht X H619 Ht' in 1m, C> Polk= 100%/trace in 1f, SE> Des Moines= 100%/trace to 3% in 1f, Louisa= 100%/trace in 1f, EC> Muscatine= 75-100%/trace in 1f, Cedar= 75-100%/trace to 5% in 2f, Scott= 100%/trace in 1f, Jones, Jackson, and Clinton= 100%/trace to 3% in 3f, NE> Delaware= 100%/trace to 3% in 1f, Dubuque= 100%/trace in 1f, NC> Franklin= 50%/trace in 1f, and Cerro Gordo and Worth= 50-100%/trace in 4f. (D.J. Williams).

SOUTHERN RUST (Puccinia polysora) - MISSOURI - Epiphytotic levels in commercial corn fields in southwestern and west-central areas, all cultivars affected, little yield reduction because of late stage of development [dent]. Area> prevalence/severity week of September 17: SW and WC> 100%/10-40% of leaf area. Recent hurricane in gulf States may have played role in sudden outbreak. (A. Foudin).

IOWA - District> County= prevalence/severity on corn [dent] in number of commercial fields (f) or monitoring plots (m), September 1-14: C> Hardin= 100%/trace to 10% in 1f, SC> Warren= 100%/trace to 10% in 1f, Clarke= 75-100%/trace to 5% in 2f, Ringgold= 100%/3-10% on 'B14A Ht' in 1m, Decatur= 100%/3-5% in 1f, Wayne and Lucas= 100%/3-25% in 2f, SE> Louisa= 100%/trace in 1f, Des Moines= 100%/3% in 1f, EC> Muscatine= 100%/10% in 1f, Cedar= 100%/trace to 5% in 2f, Scott= 100%/trace in 1f, Jackson= 100%/3% in 1f, Clinton= 75-100%/trace to 3% in 1f, Jones= 100%/trace in 1f, NE> Delaware= 100%/trace in 1f, Dubuque= 75%/trace in 1f, and NC> Franklin= 100%/trace to 35% in 1f. (D.J. Williams).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - IOWA - District> County= prevalence/severity on corn [dent] in 1 commercial field each, September 1-14: EC> Clinton= 25%/trace to 10% and SC> Lucas= 99%/trace to 3%. (D.J. Williams).

CORN EYESPOT (Kabatiella zeae) - IOWA - District> County= prevalence/severity on corn [dent] in 1 commercial field each, September 1-14: EC> Jackson= trace/3%, Jones= 75%/trace to 5%, NE> Delaware= 10%/5%, Dubuque= 10%/trace to 10%, NC> Worth= 25%/trace to 3%, and Franklin= trace/trace. (D.J. Williams).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - OKLAHOMA - District> County= prevalence on cornstalks: NE> Osage= 1% in irrigated field. (D.C. Arnold). KANSAS - District> County= status on sorghum [dough]: NE> Nemaha= on 0 and 4% of plant stems in or below head region in 2 fields. (B.D. Hilbert). WISCONSIN - Area> status on corn: NW> parasitism of first generation larvae by Macrocentrus grandii (a braconid wasp) heaviest in memory, and Polk County= live first generation pupa detected at Dresser, no live pupae ever detected so late. (O.L. Lovett). GEORGIA - Area> larval instars per 50 plants of corn [mature] in number of sites (s) week of September 10: SW> 5th 3 in 1s (W.F. Wood) and SE> 5th to 6th 3-4 (averaged 3.5) in 2s (W.F. Wood, W.M. Fortson); currently: SW> 5th 5 in 1s and SE> 5th 6 in 1s (W.F. Wood).

KENTUCKY - European corn borer fall infestation survey on corn underway. Populations appear well below levels of last 2 years. (P.E. Sloderbeck). OHIO - Second generation adult flight almost over. Various instar larvae heavy in north-central area. District> County= larvae per corn plant based on total sample of 20 plants per field from 3 random locations: NC> Wyandot= 0.05 and 0.85, Seneca= 0.65 and 0.40, Sandusky= 0.40 and 0.60, Erie= 0.25 on sweet corn, Huron= 0.55, and Crawford= 1.20 and 0.10. (G.P. Walker).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - OKLAHOMA - District> County= prevalence on cornstalks: Panhandle> Texas= averaged 85% and 100% in 2 untreated fields. (D.C. Arnold).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - Problem on some sweet corn sprayed daily for mainly CORN EARWORM (Heliothis zea). District> County= fall armyworm larval status on sweet corn: C> Alachua= infested 4% of 8.1 of 129 ha near Alachua, some larvae infested corn despite daily controls. (R.B. Baker).

CORN EARWORM (Heliothis zea) - ALABAMA - Area> larval average per 100 heads of sorghum [full head]: Central Alabama> 3rd instars 5 in 1 site. (W.N. Stephenson).

SORGHUM WEBWORM (Celama sorghiella) - ALABAMA - Area> larval average per 25 heads of sorghum [full head]: Central Alabama> 3rd instars 5 in 1 site. (W.N. Stephenson).

WHITEFRINGED BEETLES (Graphognathus spp.) - GEORGIA - Area> adults per 50 plants of corn [mature] in 1 site each, week of September 10: SW> 1; currently: SW> 1. (G. Galbreath).

CHINCH BUG (Blissus leucopterus leucopterus) - KANSAS - District> County= status on sorghum [host stage]: C> Saline= nymphs and adults light to very heavy in 1 field [dough] with thin stand near Assaria, some plants still being destroyed by heavy infestations, and large nymphs and adults light in nearby field [mature], and light on forage sorghum [mature] near Mentor, last 2 fields had normal stands. (K.O. Bell, Jr.).

CORN LEAF APHID (Rhopalosiphum maidis) - OHIO - Colonies appeared to peak in terms of percentage of plants infested and degree of infestation on affected plants. Colonies of 100 or more per plant common on north-central area corn. Aphids dying off in mature fields with no green foliage. District> County= percent infestations based on total sample of 20 plants per field in 3 random

locations: NC> Wyandot= corn leaf aphid infestations 35% and 90%, Seneca= 55% and 5%, Sandusky= 65% and 85%, Erie= less than 5% on sweet corn, Huron= 100%, and Crawford= 35% and 55%. (G.P. Walker).

AN APHID (Rhopalosiphum padi) - OHIO - Heavy in several corn fields. District> County= percent infestation: NC> Sandusky= 5%, Erie= 5%, and Crawford= 35% and 10%. (G.P. Walker).

SMALL GRAINS

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - KANSAS - District> County= status: WC> Greeley= flights heavy in trap at Tribune (E.F. Martinez, K.O. Bell, Jr.), and SC> Sedgwick= small larvae light in whorls of wheat [1-2 tiller] nurse crop for alfalfa (K.O. Bell, Jr.).

CLAYBACKED CUTWORM (Agrotis gladiaria) - KANSAS - First of season. District> County= adults in blacklight traps September 19-20: NE> Jefferson= 54. (B.D. Hilbert, K.O. Bell, Jr.).

PALE WESTERN CUTWORM (Agrotis orthogonia) - KANSAS - First of season. District> County= adults in blacklight traps September 19-20: SW> Finney= 7 and 19. (L.J. DePew, M.L. Shuman).

A NOCTUID MOTH (Agrotis venerabilis) - KANSAS - First of season. District> County= adults in blacklight traps September 19-20: NE> Jefferson= 3. (B.D. Hilbert, S.C. White).

BRONZED CUTWORM (Nephelodes minians) - KANSAS - District> County= adults in blacklight traps September 19-20: NE> Jefferson= unusually heavy flight near Valley Falls, 137 caught. (B.D. Hilbert, K.O. Bell, Jr.).

GREENBUG (Schizaphis graminum) - KANSAS - District> County= averages per plant in whorls of wheat [1-2 tiller]: SC> Sedgwick= 0.5 on nurse crop for seedling alfalfa in 1 field. (K.O. Bell, Jr.). SOUTH DAKOTA - Appeared on winter wheat plantings. Area> status: SC> prevalent on many sorghum and volunteer wheat fields, moving to newly seeded wheat. (B.H. Kantack).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - MINNESOTA - New county record. District> County= collection data on alfalfa: EC> Anoka= larvae and adults collected near East Bethel, September 19, 1979. Collected and determined by D.D. Sreenivasam. Surveys from 5 fields showed larval counts increased from last period. Larvae averaged 2 per sweep and adults 2 per 10 sweeps. (D.D. Sreenivasam).

PEA APHID (Acyrthosiphon pisum) - KANSAS - District> County= averages per 10 sweeps of alfalfa: NE> Nemaha= 300 and 70 in 2 fields [25-38 cm tall]. (B.D. Hilbert).

POTATO LEAFHOPPER (Empoasca fabae) - OHIO - Nymphs and adults still common on alfalfa. District> County= counts per sweep of alfalfa based on total sample of 10 sweeps per field in groups of 2 from 5 random locations: NC> Erie= 3.1, Sandusky= 0.6, Seneca= 1.1, and Wyandot= 1.5. (G.P. Walker).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa: C> Maricopa= 18-160 and Pinal= 168. (W. Butterweck et al.).

SOYBEANS

DISEASES

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - IOWA - District> County= prevalence on soybeans [pod 2 cm] in number of commercial fields (f), September 1-14: SC> Warren= trace to 5% in 1f, Clarke= 5-25% in 2f, Decatur= 5-10% in 1f, Wayne= trace in 1f, Lucas= trace to 5% in 1f, EC> Muscatine= trace to 20% in 2f, NC> Worth= 5-25% in 5f, Winnebago= trace to 20% in 5f, and NW> Emmet= trace to 20% in 5f. (D.J. Williams). WISCONSIN - Root rot in varying degrees in 19 of 20 fields in southeastern area. District> County= prevalence/severity on soybeans: SC> Rock= 12%/30%, SE> Walworth= 5%/18%, Kenosha= 13%/39%, and Racine= 6%/23%. (O.L. Lovett).

SOYBEAN BROWN SPOT (Septoria glycines) - IOWA - District> County= prevalence/severity on soybeans [pod 2 cm if not given] in number of commercial fields (f) or monitoring plots (m), September 1-14: SC> Warren= 100%/3-15% in 1f, Clarke= 100%/5-10% in 1f, Ringgold= 100%/5-25% on 'Corsoy', 100%/3-15% on 'Wells', and trace/trace on 'Elf'in 1m, Franklin=100%/trace [pod fill] in 1f, Decatur= 100%/trace to 3% in 1f, Wayne= 100%/10-25% [pod fill] in 1f, Lucas= 100%/5-20% in 1f, SE> Des Moines= 100%/trace to 5% in 1f, Louisa= 100%/3-15% in 1f, EC> Muscatine= 100%/trace to 5% in 1f, Cedar= 100%/15-20% in 1f, Scott= 100%/25% in 1f, Jackson= 100%/10-35% in 1f, and 100%/15-25% [pod fill] in 1f, Clinton= 100%/10-35% in 1f, Jones= 100%/15-35% in 1f, NE> Delaware= 100%/5-25% in 1f, Dubuque= 100%/10-25% in 1f, NC> Worth= 100%/15-45% in 1f, Franklin= 100%/15-35% in 1f, and C> Polk= 100%/3-10% in 1f. (D.J. Williams).

SOYBEAN POD AND STEM BLIGHT (Diaporthe phaseolorum var. sojae) - IOWA - District> County= prevalence of imperfect stage on soybeans [pod 2 cm] in number of commercial fields (f) or monitoring plots (m), September 1-14: SC> Warren= 5% in 1f, Clarke= 75% in 1f, Ringgold= 100% on 'Clark 63', trace on 'Beeson' in 1m, Wayne= trace to 10% in 1f, Lucas= 25% in 1f, SE> Louisa= 5% in 1f, Des Moines= 10% in 1f, EC> Scott= 5% in 1f, Clinton= 35% in 1f, Jackson= 20% in 1f, Jones= 10% in 1f, and NC> Franklin= 5% in 1f. (D.J. Williams).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - IOWA - District> County= prevalence/severity on soybeans [pod 2 cm] in number of commercial fields (f) or monitoring plots (m), September 1-14: SC> Ringgold= 90%/5-20% on 'Crawford' in 1m, Decatur= 75%/trace to 10% in 1f, Wayne= 75-99%/3-5% in 1f, Lucas= 95%/trace to 10% in 1f, SE> Des Moines= 25-100%/trace to 5% in 1f, Louisa= 75-99%/trace to 3% in 1f, and EC> Muscatine= 50-75%/trace to 5% in 1f. (D.J. Williams).

BROWN STEM ROT (Phialophora gregata) - IOWA - District> County= prevalence on soybeans [pod 2 cm] in number of commercial fields (f), September 1-14: SC> Warren= 75% in 1f, Clarke= 60% in 1f, Decatur= 80% in 1f, SE> Des Moines= 25-95% in 2f, Louisa= 50-75% in 2f, EC> Scott= 80% in 1f, Jackson= 70% in 1f, Clinton= 95% in 1f, Jones= 30% in 1f, NE> Delaware= 25% in 1f, Dubuque= 70% in 1f, and NC> Franklin= 60% in 1f. (D.J. Williams). WISCONSIN - Leaf symptoms on soybeans easily found in southeastern area. Internal browning of stems where stems split open in 18 of 20 fields. District> County= prevalence/severity on soybeans: SC> Rock= 28%/14%, SE> Walworth= 4%/2%, Kenosha= 10%/5%, and Racine= 9%/6%. (O.L. Lovett).

A POWDERY MILDEW (Microsphaera diffusa) - IOWA - District> County= prevalence/severity on soybeans [pod 2 cm] in number of commercial fields (f) or monitoring plots (m) September 1-14: SC> Ringgold= 90%/25% on 'Hodgson 78' and 100%/5% on 'BSR 301' in 1m, EC> Muscatine= 99%/trace to 5% in 1f, SE> Louisa= 50%/trace to 15% in 1f, Des Moines= trace to 10%/trace to 5% in 1f, and EC> Scott= 25%/trace to 5% in 1f. (D.J. Williams).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - IOWA - District> County= prevalence/severity on soybeans [pod 2 cm] in number of commercial fields (f) or monitoring plots (m) September 1-14: SC> Warren= 100%/trace in 1f, Clarke= trace to 99%/trace in 1f, Ringgold= 100%/trace to 3% on 'Corsoy' in 1m, Decatur= 100%/trace in 1m, Wayne= 100%/3-5% in 1f, Lucas= 100%/3% in 1f, SE> Des Moines= 10-25%/trace to 3% in 1f, EC> Muscatine= 50-75%/trace to 5% in 1f, Cedar= 100%/trace to 5%, Scott= 100%/trace to 10% in 1f, Clinton= 99%/3% in 1f, Jackson= 99%/3-10% in 1f, Jones= trace/trace in 1f, NE> Delaware= 99%/trace in 1f, Dubuque= 99%/3% in 1f, and NC> Franklin= 99%/trace to 3% in 1f. (D.J. Williams).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - WISCONSIN - In 5 of 20 fields in southeastern area. District> County= prevalence/severity on soybeans: SC> Rock= 5%/1%, SE> Walworth= 13%/1%, Kenosha= 1%/1%, and Racine= 0%/0%. (O.L. Lovett).

INSECTS

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - Decreased. District> County= status on soybeans: NW> Santa Rosa= heavy for 3 or 4 weeks near Jay, foliage stripped in places in several fields, about 200-300 of 1,012 ha required treatment in Jay area (M.C. Donahoe), and Gadsden= population stable, 3 and sometimes 4 treatments applied. Adults up to 500 per night in blacklight trap September 14-19, many eggs and 1st and 2nd instar larvae on soybeans. (D.C. Herzog).

ALABAMA - Area> velvetbean caterpillar larval instars (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s) week of September 12: Gulf Coast> 2nd to 4th 7-101 (54) [full seed] and 10-20% in 2s (L.W. Lockhart), Coastal Plains> 1st to 4th 9-13 (11) [full seed to beginning maturity] and 20% in 2s (T. Lemons), Wiregrass> 2nd to 5th 38-46 (42) [full seed] and 3-5% in 2s (Knox-Wilson), Central Alabama> 3rd, no data for range (4) [full seed] and 10% in 1s (W.N. Stephenson), Black Belt> 2nd to 6th 1-45 (11.2) [full seed] and 10-30% in 5s (T. Pigott), and Tennessee River> 2nd to 3rd 1-9 (5.3) [pod 2 cm] and 5% in 3s (J.E. Gregory). Currently: Coastal Plains> 4th, no data for range (5) [beginning maturity] and 20% in 1s (T. Lemons), Wiregrass> 1st to 5th 12-52 (27.8) [beginning maturity] and 5% in 4s (Knox-Wilson), Central Alabama> 3rd to 5th, no data for range (5) [full seed] and 10% in 1s (W.N. Stephenson), and Sand Mountain> 2nd to 4th 1-4 (2) [full seed] and 10% in 3s (W.A. Smith).

GEORGIA - Velvetbean caterpillar larval instars (average) per 4.6 row m of soybeans [host stage] in number of sites (s), week of September 10: SW> 1st to 4th 2-89 (19.2) [beginning seed to full seed] in 8s (J.E. Burnett, G. Galbreath), SE> 1st to 5th 1-70 (19.1) [pod 5 cm to beginning maturity] in 8s (K.L. Davenport et al.), and C> 3rd instar, no data for range (1) [full seed] in 1s (W.J. Roberts). Currently: SW> 1st to 4th 27-123 (56) [pod 5 mm to full seed] in 7s (J.E. Burnett et al.), SE> 1st to 4th 2-22 (8.2) [pod 2 cm to beginning maturity] in 6s (K.L. Davenport), and C> 2nd, no data for range (1) [full seed] in 1s (W.J. Roberts).

SOUTH CAROLINA - Area> velvetbean caterpillar larvae on soybeans September 14: Pee Dee and Savannah Valley> primary defoliator. Most populations increased. (D.G. Manley).

GREEN CLOVERWORM (Plathypena scabra) - OKLAHOMA - District> County= counts on soybeans: SC> Atoka= averaged 4 per 0.3 row m and SW> Tillman= light. (D.C. Arnold). MISSISSIPPI - District> County= larval status on soybeans: NC> Calhoun and NE> Pontotoc= decreased in many growing areas due to mortality caused by Nomuraea rileyi (an insect fungus), mortality up to 95%; S> pest economic but localized. (R. Anderson).

ALABAMA - Area> green cloverworm larval instars (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s), week of September 12: Gulf Coast> 4th, no data for range (9) [full seed] and 20% in 1s (L.W. Lockhart), Coastal Plains> 1st to 4th 1-49 (25) [full seed to beginning maturity] and 20% in 2s (T. Lemons), Wiregrass> 2nd to 5th 18-22 (20) [full seed] and 3-5% in 2s (Knox-Wilson), Central Alabama> 2nd to 4th, no data for range (20) [full seed] and 10% in 1s (W.N. Stephenson), Black Belt> 1st to 6th 2-36 (17.8) [full seed] and 10-30% in 5s (T. Pigott), and Tennessee River> 2nd to 3rd 12-37 (23.6) [pod 2 cm to beginning seed] and 5% in 5s. (J.E. Gregory). Currently: Wiregrass> 1st to 5th 10-28 (17.3) [beginning maturity] and 5% in 3s (Knox-Wilson), Central Alabama> 2nd to 4th, no data for range (20) [full seed] and 10% in 1s (W.N. Stephenson), and Sand Mountain> 2nd, no data for range (1) [beginning maturity] and 10% in 1s (W.A. Smith).

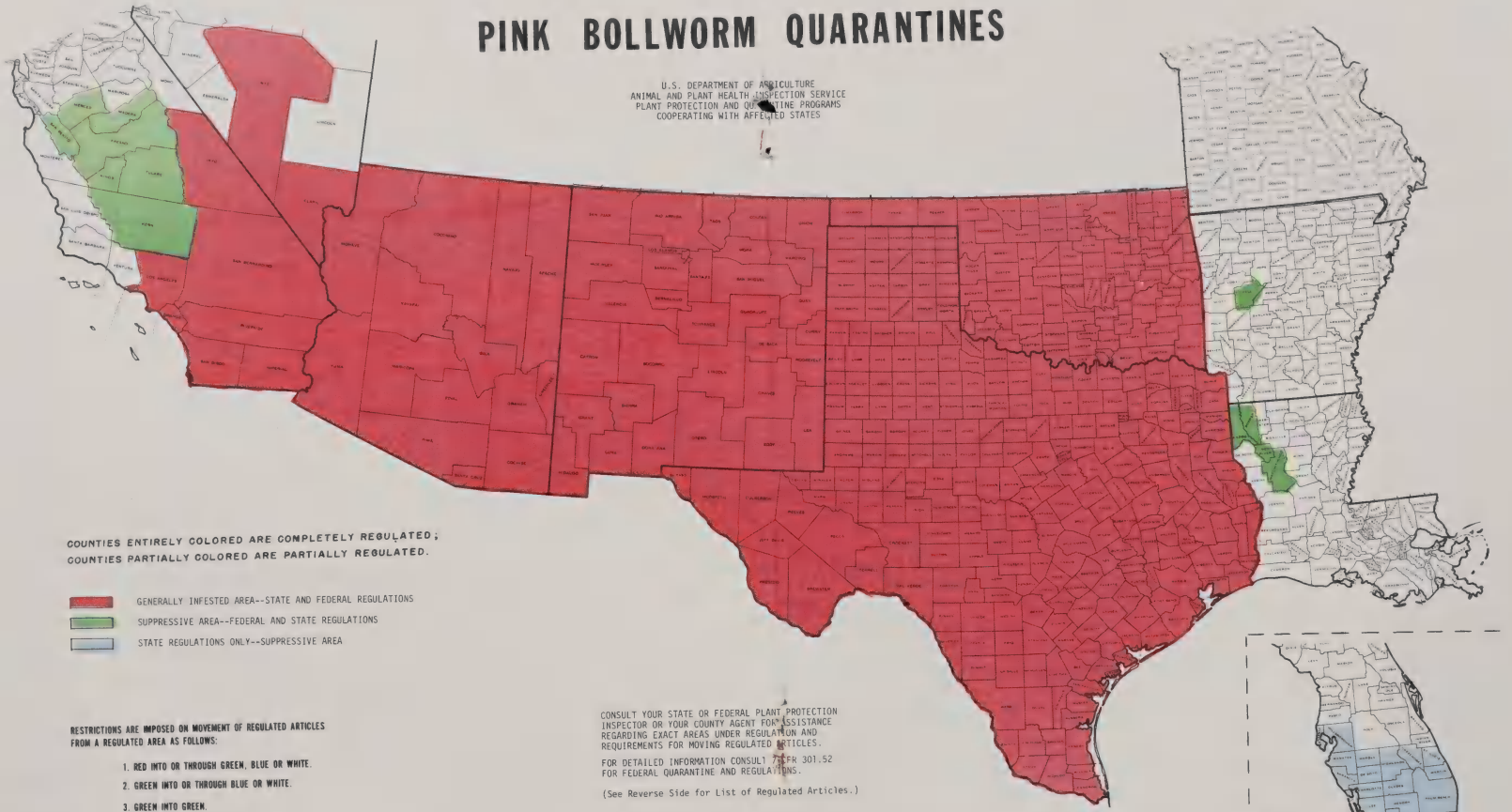
GEORGIA - Area> green cloverworm larval instars (average) per 4.6 row m of soybeans [host stage] in number of sites (s), week of September 10: SW> 2nd to 4th 2-7 (4.4) [beginning seed to full seed] in 5s (J.E. Burnett et al.), SE> 2nd to 4th 1-39 (12.8) [pod 5 mm to full seed] in 5s (W.F. Wood, W.M. Fortson), and C> 1st to 5th instars 5-27 (11) [full seed] in 2s (W.J. Roberts). Currently: SW> 1st to 4th 1-9 (4) [beginning seed to full seed] in 7s (J.E. Burnett et al.), SE> 1st to 4th 1-12 (6) [pod 2 cm to beginning maturity] in 3s (W.M. Fortson, W.F. Wood), and C> 1st to 5th 5-39 (22) [full seed] in 2s (W.J. Roberts).

SOYBEAN LOOPER (Pseudoplusia includens) - ALABAMA - Area> larval instars (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s) week of September 12: Gulf Coast> 2nd to 5th 1-17 (8.3) [full seed] and 10-20% in 3s (L.W. Lockhart), Coastal Plains> 1st to 4th 16-113 (41.8) [full seed to beginning maturity] and 15-20% in 5s (T. Lemons), Wiregrass> 2nd to 4th 8-10 (9.3) [full seed] and 2-5% in 3s (Knox-Wilson), Central Alabama> 2nd to 4th 6-68 (28.8) [full seed] and 8-22% in 5s (W.N. Stephenson), Black Belt> 1st to 4th 8-36 (18.4) [full seed] and 10-30% in 5s (T. Pigott), and Tennessee River> 2nd to 3rd 2-5 (3.3) [pod 2 cm to beginning seed] and 5% in 3s (J.E. Gregory). Currently: Coastal Plains> 3rd to 4th, no data for range (35) [beginning maturity] and 20% in 1s (T. Lemons), Wiregrass> 5th, no data for range (1) [beginning maturity] and 5% in 1s (Knox-Wilson), and Central Alabama> 2nd to 4th 4-120 (37.6) [full seed] and 8-24% in 5s (W.N. Stephenson).

GEORGIA - Area> soybean looper larval instars (average) per 4.6 row m of soybeans [host stage] in number of sites (s) week of September 10: SW> 2nd to 4th 1-8 (4.7) [seed development to seed full size] in 8s (J.E. Burnett et al.), SE> 1st to 4th 1-12 (5.5) [pod 0.5 cm to seed full size] in 6s (W.M. Fortson, T.H. Murphy), and C> 3rd to 4th 1-4 (2.3) [seed full size to pod yellowing] in 3s (W.J. Roberts). Currently: SW> 2nd to 4th 2-11 (5.7) [seed development to seed full size] in 6s (J.E. Burnett et al.), SE> 2nd to 5th 2-20 (6.7) [pod 2 cm to pod yellowing] in 4s (W.M. Fortson), and C> 5th, no data for range (15) [seed full size] in 1s (W.J. Roberts).

PINK BOLLWORM QUARANTINES

U.S. DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
COOPERATING WITH AFFECTED STATES



COUNTIES ENTIRELY COLORED ARE COMPLETELY REGULATED;
COUNTIES PARTIALLY COLORED ARE PARTIALLY REGULATED.

- GENERALLY INFESTED AREA--STATE AND FEDERAL REGULATIONS
- SUPPRESSIVE AREA--FEDERAL AND STATE REGULATIONS
- STATE REGULATIONS ONLY--SUPPRESSIVE AREA

RESTRICTIONS ARE IMPOSED ON MOVEMENT OF REGULATED ARTICLES FROM A REGULATED AREA AS FOLLOWS:

1. RED INTO OR THROUGH GREEN, BLUE OR WHITE.
2. GREEN INTO OR THROUGH BLUE OR WHITE.
3. GREEN INTO GREEN.
4. WITHIN GREEN.*
5. BLUE INTO ANY OTHER AREA.

* IF IT IS DETERMINED BY THE INSPECTOR THAT A HAZARD OF SPREAD EXISTS.

CONSULT YOUR STATE OR FEDERAL PLANT PROTECTION INSPECTOR OR YOUR COUNTY AGENT FOR ASSISTANCE REGARDING EXACT AREAS UNDER REGULATION AND REQUIREMENTS FOR MOVING REGULATED ARTICLES.

FOR DETAILED INFORMATION CONSULT 7 CFR 301.52 FOR FEDERAL QUARANTINE AND REGULATIONS.

(See Reverse Side for List of Regulated Articles.)

AUGUST 15, 1979

FLORIDA

THE FOLLOWING REGULATED ARTICLES REQUIRE A CERTIFICATE OR PERMIT YEAR-ROUND EXCEPT AS INDICATED:

1. Cotton and wild cotton, including all parts of such plants.

2. Seed cotton.

3. Cottonseed.

4. Cottonseed hulls.

5. Cotton lint.

   Baled cotton lint is exempt if compressed to a minimum of 22 pounds per cubic foot.

   Baled cotton lint moving from the generally infested area into the suppressive area is exempt if the lint is from seed cotton produced in the suppressive area and moved to the generally infested area for ginning, provided the identity of the baled cotton lint is maintained.

   Samples of cotton lint of the usual trade size are exempt. The samples may be assembled in a single package for shipment.

6. Cotton linters.

   Linters are exempt if compressed to a minimum of 22 pounds per cubic foot.

   Samples of cotton linters of the usual trade size are exempt. Samples may be assembled in a single package for shipment.

7. Cotton waste produced at cotton gins, cottonseed oil mills, and cotton textile mills.

   Lint cleaner waste is exempt if compressed to a minimum of 22 pounds per cubic foot.

8. Cotton gin trash.

9. Used bagging and other used wrappers for cotton.

10. Used cotton harvesting equipment and used cotton ginning and cotton oil mill equipment.

11. Okra and kenaf, including all parts of such plants except canned or frozen okra.

    Edible okra is exempt if produced during the period December 1 to May 15 inclusive, except that okra consigned to California is exempt only if produced during the period of January 1 to March 15 inclusive.

12. Any other products, articles, or means of conveyance of any character whatsoever, not covered by the above, when it is determined by an inspector that they present a hazard of spread of the pink bollworm and the person in possession thereof has been so notified.

CORN EARWORM (Heliothis zea) - GEORGIA - Area> larval instars (average) per 4.6 row m of soybeans [host stage] in number of sites (s), week of September 10: SW> 3rd to 4th 2-3 (2.7) [full bloom to full seed] in 3s (J.E. Burnett, W.F. Wood), SE> 1st to 4th 1-26 (4.5) [pod 5 mm to full seed] in 8s (W.F. Wood et al.), and C> 1st to 2nd 1-2 (1.3) [full seed to beginning maturity] in 3s (W.J. Roberts). Currently: SW> 4th 5-6 (5.5) [beginning seed] in 2s (W.F. Wood), SE> 2nd to 4th 1-13 (17) [pod 2 cm to beginning maturity] in 3s (W.M. Fortson, W.F. Wood), and C> 4th to 5th, no data for range (2) [full seed] in 1s (W.J. Roberts).

MEXICAN BEAN BEETLE (Epilachna varivestis) - FLORIDA - District> County= status on soybeans: C> Alachua= 6 larvae seen at Gainesville, first in years (R.B. Baker), NW> Santa Rosa= localized population in small area of field near Milton (M.C. Donahoe), and Gadsden= very few seen, fewer than earlier this season, not heavy at any time. (D.C. Herzog). ALABAMA - Area> larvae per 9.1 row m on soybeans [beginning maturity] and percent leaf loss: Coastal Plains> larvae averaged 7 and 20% in 1 site. (T. Lemons). TENNESSEE - District> County= status on soybeans: Cumberland Plateau> Franklin= defoliation 100% in 2 small fields; Franklin, Coffee, and Central Basin> Lincoln= damage occurred, infestations spotty from field to field, up to 25% in other fields. (J. Cagle, M. Cooper). KENTUCKY - District> County= status on late-planted soybeans [seed full size to late pod fill]: Midwestern> Todd= defoliation up to 75% on about 8 ha near Clifty. Defoliation noticeable on about 200 ha of nearby soybeans. No treatment recommended. (H.G. Raney et al.).

FALL ARMYWORM (Spodoptera frugiperda) - ALABAMA - Area> larval instar averages per 100 heads of sorghum [host stage] in 1 site each, week of September 12: Gulf Coast> 3rd 40 [whorl] (L.W. Lockhart) and Central Alabama> 3rd to 4th 16 [head] (W.N. Stephenson).

BEET ARMYWORM (Spodoptera exigua) - GEORGIA - Area> 1st instar larvae per 4.6 row m of soybeans [seed full size]: SW> 1 in 1 site. (G. Galbreath).

BEAN LEAF BEETLE (Cerotoma trifurcata) - ALABAMA - Area> adults per 9.1 row m of soybeans [full seed] and percent leaf loss in number of sites (s): Central Alabama> averaged 10 and 10% in 1s (W.N. Stephenson) and Sand Mountain> 1-2 (averaged 1.5) and 10% in 4s. (W.A. Smith).

WHITEFRINGED BEETLES (Graphognathus spp.) - ALABAMA - Area> counts per 9.1 row m of soybeans [host stage] and percent leaf loss, week of September 12: Gulf Coast Plains> adults averaged 3 [beginning maturity] and 20% in 1 site. (T. Lemons). GEORGIA - Area> adult (average) per 4.6 row m of soybeans [host stage] in number of sites (s), week of September 10: SW> 1-3 (5-7) [seed development to seed full size] in 7s (J.E. Burnett et al.), SE> 3-5 (4) [seed development to seed full size] in 2s (W.F. Wood, K.L. Davenport), and C> 1 [seed full size] in 1s (W.J. Roberts); currently: SW> 2-4 (3) [seed full size] in 1s (J.E. Burnett, W.T. Glover) and SE> 4-6 (5) [pod yellowing] in 2s (K.L. Davenport).

SOUTHERN GREEN STINK BUG (Nezara viridula) - FLORIDA - District> County= status of mostly this species on soybeans: C> Alachua, Levy, and NE> Columbia= treatments required on 162 ha (R.B. Baker); NW> Santa Rosa= increased on soybean pods in Jay area, 2 fields totaling 32 ha of 1,012 ha required treatment (M.C. Donahoe); and Gadsden= began to reach economic levels, averaged about 1 per 0.3 row m (D.C. Herzog).

OTHER TROP. & SUBTROP. FRUITS

INSECTS

A LACE BUG (Corythucha salicata) - CALIFORNIA - New host record for State. District> County= collected on Actinidia chinensis (kiwi): Sacramento Valley> Yuba= found at Marysville, August 13, 1979, by D. Kelsey, determined by R.C. Froeschner. Leaf spotting evident. (C.S. Papp).

FOREST AND SHADE TREES

DISEASES

DUTCH ELM DISEASE (Ceratocystis ulmi) - OKLAHOMA - First of season. District> County= status on American elm, week of September 19: C> Oklahoma= first culture confirmed. (K.E. Conway).

INSECTS

MAPLE LEAFCUTTER (Paraclemensia acerifoliella) - NEW HAMPSHIRE - Trees in upper and lower pasture areas equally infested, damage concentrated in outer canopy of foliage, minimal in interior foliage, browning and ragging of leaves visible from distance, population increased substantially since 1978, should be monitored closely next year. Extensive leaf damage this year may be too late to substantially affect tree growth. County= status on maple foliage: Sullivan= populations increased this year, damage noticeable at Acworth. Counts in past years averaged 0.1-1.0 per leaf and generally not heavy enough to cause noticeable browning of foliage. Counts this year averaged 2-5 leaf packs per leaf and 5-15 holes per leaf in most heavily infested trees. (W.J. Morse, J.F. Burger).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= average per animal in small beef herd September 14: C> Alachua= 300 at Newberry. (D. Boyd). OKLAHOMA - District> County= counts per head on cattle: WC> Washita= averaged 1,000 and NC> Major= ranged 400-600. (D.C. Arnold). NEBRASKA - District> County= counts per head on untreated cattle: SW> Lincoln and C> Dawson= averaged 500+. (Campbell). WISCONSIN - District> County= counts per side on cattle: C> Wood= averaged about 5 and SC> Rock= 8. (O.L. Lovett).

FACE FLY (Musca autumnalis) - NEBRASKA - District> County= adult counts per face on untreated cattle: SW> Lincoln and C> Dawson= averaged 9. (Campbell). WISCONSIN - District> County= adults per head on cattle: C> Wood= about 1. (O.L. Lovett).

STABLE FLY (Stomoxys calcitrans) - NEBRASKA - District> County= adult average per leg on untreated cattle: SW> Lincoln and C> Dawson= 12. (Campbell). WISCONSIN - District> County= adults per side of cattle: C> Wood= 2. (O.L. Lovett).

A BIBIONID FLY (Plecia nearctica) - FLORIDA - District> County= counts September 15: C> Gainesville area, Alachua, eastward to Palatka, Putnam= heaviest in last 3 years. (F.W. Mead).

MOSQUITOES - ARKANSAS - Adults collected in New Jersey-type light traps August 9 to September 5 (M.V. Meisch, D. Bassi):

District> County	City	Number of Psorophora	Aedes	Culex	Anopheles	Traps
SE> Ashley	Hamburg	627	7	306	745	4
EC> Saint Francis	Forrest	564	94	305	437	5

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - UTAH - District> County= status: N> Tooele= problem serious in some range areas and small grain fields. (W. Bitner, R.S. Roberts). OKLAHOMA - District> County= status of mostly Melanoplus spp.: Panhandle> Texas= damaged 3.0-6.1 m of margins of scattered wheat fields, NC> Major= damaged 2-6.1 m of margins of early planted rye, and NC> Grant= averaged 3 per 0.9 sq m in seedling wheat field. (D.C. Arnold).

KANSAS - District> County= status of mostly Melanoplus sanguinipes with few Melanoplus differentialis: SC> Sedgwick and Reno= stand loss of 0.9-3 m along weedy margins of alfalfa [3-15 cm seedling] in 3 fields by September 19, margin of 1 field appeared treated, nearly all M. sanguinipes mature, few 5th instars of second generation remain. (K.O. Bell, Jr.). SOUTH DAKOTA - Problems in many areas on winter wheat field borders. Completely destroyed young wheat seedlings for about a block into field in many cases. (B.H. Kantack).

NORTH DAKOTA - Adult cropland survey completed August 29. Dominant species Melanoplus bivittatus, Melanoplus dawsoni, M. differentialis, Melanoplus femurrubrum, Melanoplus packardii, and M. sanguinipes. (C. Nelson, G. Scholl).

District> County	Average per 0.8 sq m Field	Margin	Range per 0.8 sq m Field	Margin
SW> Adams	3	10	1-7	2-20
SW> Bowman	4	9	less than 1-18	1-18
SW> Hettinger	3	5	1-7	1-12
SW> Slope	4	10	1-20	2-30
NC> Benson	1	2	less than 1-2	less than 1-5
NC> Pierce	2	5	0-5	1-10
NC> McHenry	2	6	less than 1-5	3-6
SC> Burleigh	5	11	1-15	2-23
SC> Emmons	7	14	1-13	3-30
SC> Grant	5	9	1-35	1-15
SC> Morton	5	10	1-30	2-40
SC> Sioux	5	12	1-15	4-30
C> Eddy	5	5	0-8	2-12
C> Foster	3	5	0-18	2-13
C> Wells	2	7	0-8	less than 1-29

GYPSY MOTH (Lymantria dispar) - WASHINGTON - District> County= males in pheromone traps: W> King= 1 in Bryn Mawr and Seattle area August 3, and 2 males near Lincoln Park, Seattle (1 on August 16 and 1 on September 12). (C. Emery).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton: SW> Yuma= infested bolls 1-6%, and C> Maricopa= infested bolls 0-12% and adults 0-33 per pheromone trap per day. (P. Gomez et al.).

SCREWWORM (Cochliomyia hominivorax) - Total of 3 cases reported from continental United States, September 2-8: Texas 2 and Arizona 1. Total of 167 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 269 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 51,189,200 as follows: Texas 21,682,000, New Mexico 7,504,000, Arizona 21,507,200, California 496,000. Total of 287,903,119 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

HAWAII PEST REPORT

General Vegetables - LEAFMINER FLIES (Liriomyza spp.) moderate to heavy on 0.2 ha of tomatoes at Omapio and Pulehu, Maui. (L.M. Nakahara et al.).

DETECTION

NEW COUNTY RECORD

INSECTS

ALFALFA WEEVIL (Hypera postica) - MINNESOTA - Anoka. (p. 709).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (mm)	Type of trap	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Rhuda auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (lesser armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 9/10-16			BL	22					10	10							5	7	1938		31	71		
CALIFORNIA																								
Bellota 9/16	17-41		BL	2	1			8		2						1			1302			8		
Manteca 9/16	17-41		BL					21		5						1		1	433			21		
FLORIDA																								
Gainesville 9/13-19			BL		2			4												9	1			
KANSAS																								
Hays 9/14, 18			BL	1		1				4						0		42		1				
KENTUCKY																								
Lexington 9/13-20			BL							6						1		6		3	17			
MONTANA																								
Bozeman 9/7-16			BL	5		27	1											4						
NEBRASKA																								
Clay Center 9/15-20			BL				23			27						19								
OHIO (County)																								
Wayne 9/21			3BL	17													24	5						
TENNESSEE																								
Selmer 9/17-20			BL						2	2						2		5		6	0	10		
Springhill 9/13-20			BL						0	21						40		30		0	5	0		
WISCONSIN																								
Mazomanie 9/13-19			BL	0						1						20	1	0						

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

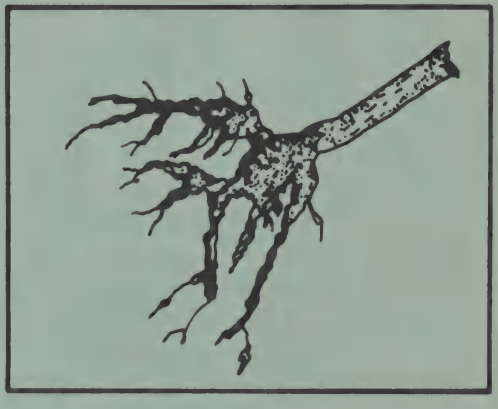
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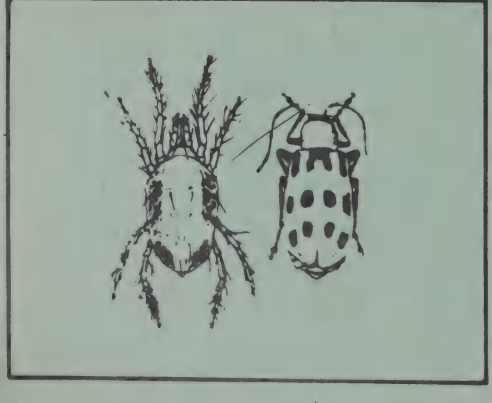
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Cooperative PLANT PEST REPORT

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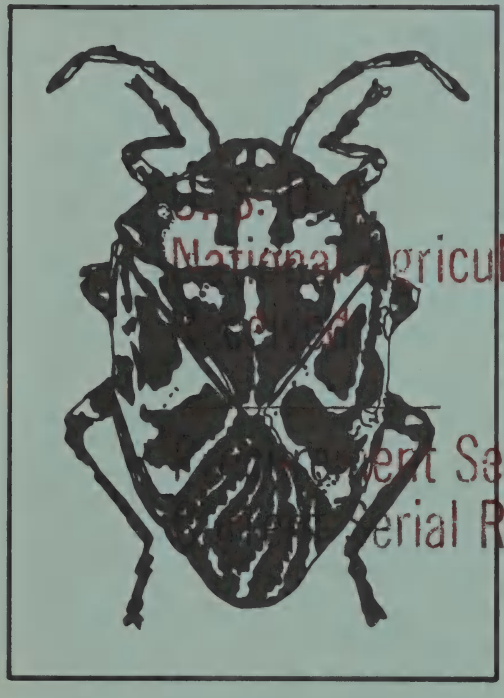
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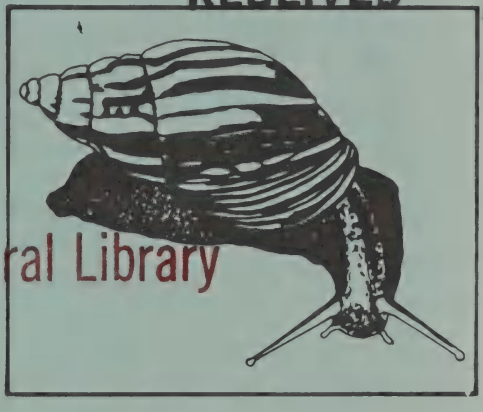
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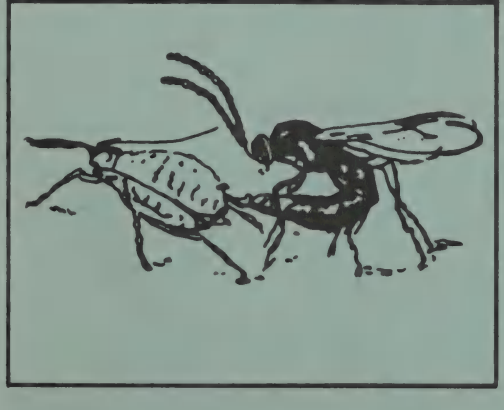
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

GRASSHOPPER survey completed in Illinois (p. 724-725) and Oregon (p. 733).

Detection

New county record on page 733.

New hosts for WESTERN GRAPELEAF SKELETONIZER for California. (p. 731).

Reports in this issue are for the week ending September 28 unless otherwise indicated.

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DISEASES

SOUTHERN LEAF BLIGHT (Cochliobolus* (Bipolaris) heterostrophus) - ILLINOIS - District> County= prevalence/severity of disease caused by Bipolaris maydis on corn [physiological maturity unless stated otherwise] leaves in number of commercial fields (f) or monitoring plots (m) September 4-14: E> Champaign= 100%/2-4% [all kernels dented] in 1f, Iroquois= 100%/1-3% [all kernels dented] in 1f, NE> De Kalb= 50%/trace to 1% [dent] in 1m, C> Logan= 95%/1-3% in 1m, W> McDonough= 70%/trace to 1% [all kernels dented] in 1m, ESE> Fayette= 95%/5-10% in 1m, SW> St. Clair= 95%/10-15% in 1m, Jackson= 95%/15-20% in 1m, and SE> Pope= 95%/15-20% in 1m. (E.G. Jordan).

NORTHERN LEAF BLIGHT (Setosphaeria* (Exserohilum) turcica) - ILLINOIS - District> County= prevalence/severity of imperfect stage on corn [all kernels dented] leaves in 1 commercial field each, September 4-14: E> Champaign, Vermilion, and Iroquois= 10-20%/1-3%. (E.G. Jordan).

COMMON SMUT (Ustilago maydis) - ILLINOIS - District> County= prevalence on corn [physiological maturity unless stated otherwise] stalks in number of commercial fields (f) or monitoring plots (m) September 4-14: E> Champaign= 6% [all kernels dented] in 1f, Vermilion= 8% [all kernels dented] in 1f, NE> De Kalb= 4% [dent] in 1m, C> Logan= 10% in 1m, W> McDonough= 6% [all kernels dented] in 1m, ESE> Fayette= 9% in 1m, SW> St. Clair= 8% in 1m, Jackson= 6% in 1m, and SE> Pope= 5% in 1m. (E.G. Jordan).

SOUTHERN RUST (Puccinia polysora) - ILLINOIS - District> County= prevalence/severity on corn [physiological maturity unless stated otherwise] leaves in number of commercial fields (f) or monitoring plots (m) September 4-14: E> Champaign= 100%/3-12% [all kernels dented] in 1f, Vermilion= 100%/2-10% [all kernels dented] in 1f, Iroquois= 100%/2-8% [all kernels dented] in 1f, NE> De Kalb= 100%/trace to 1% [dent] in 1m, C> Logan= 100%/3-10% in 1m, W> McDonough= 100%/2-5% [all kernels dented] in 1m, ESE> Fayette= 100%/15-20% in 1m, SW> St. Clair= 100%/15-30% in 1m, Jackson= 100%/20-35% in 1m, and SE> Pope= 100%/30-50% in 1m. (E.G. Jordan).

SORGHUM LEAF RUST (Puccinia purpurea) - KANSAS - Most widespread sorghum disease. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Clay	100	5	hard dough
NC> Cloud	100	5	hard dough
EC> Wabaunsee	trace to 40	trace to 5	hard dough
EC> Lyon	30	5	hard dough
EC> Osage	trace	trace	hard dough

FUSARIUM HEAD BLIGHT (Fusarium moniliforme) - KANSAS - District> County= prevalence in 1 sorghum field each: SC> Kiowa= 10% with some lodging and Pratt= 12%. (T. Sim, IV).

CRAZY TOP (Sclerophthora macrospora) - KANSAS - District> County= prevalence on sorghum: SW> Grant= trace in 1 field. (T. Sim, IV).

* Luttrell, E.S. 1977. Biosystematics of Helminthosporium: impact on agriculture. Pages 193-209 in L. Knutson, Chairman. Beltsville symposia in agricultural research [2], biosystematics in agriculture. Allanheld, Osmun & Co. Publishers Inc., Montclair, New Jersey.

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - District> County= prevalence in 1 sorghum field each: NC> Clay, EC> Lyon, and Douglas= trace. (T. Sim, IV).

CORN EYESPOT (Kabatiella zeae) - WISCONSIN - Severity on corn increased greatly past few weeks, particularly in fields nearing maturity, present to some degree on almost all plants in all fields. Area> prevalence/severity on corn leaves: SW and WC> 100%/25-40%. (O.L. Lovett).

SOOTY STRIPE (Ramulispora sorghi) - KANSAS - Most obvious on sorghum in parts of east-central area. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host stage
EC> Wabaunsee	trace	light	hard dough
EC> Lyon	100	moderate	hard dough
EC> Osage	100	moderate	hard dough
EC> Douglas	100	moderate	hard dough

ROUGH SPOT (Ascochyta sorghina) - KANSAS - District> County= prevalence on sorghum: EC> Lyon= trace in 1 field. (T. Sim, IV).

CORN GRAY LEAF SPOT (Cercospora zeae-maydis) - WEST VIRGINIA - District> County= status on corn: E> Jefferson and Berkeley= foliar damage heavy and stalk lodging light. (R.L. Williams).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - WISCONSIN - Early results of fall survey show widely varying populations. Ranged from 100+ per 100 plants in more mature fields to 25 or fewer per 100 plants in younger fields. First generation parasitism by Macrocentrus grandii (a braconid wasp) heavy in some areas of west-central district. (O.L. Lovett).

CORN EARWORM (Heliothis zea) - WISCONSIN - District> County= status: SC> Dane= major flight should be underway at Madison and other advanced sites, however, blacklight trap catches very light, and NW> Polk= larvae infested corn. (O.L. Lovett).

SORGHUM WEBWORM (Celama sorghiella) - MISSOURI - District> County= counts on 10 heads of late-planted sorghum: C> Cooper and Moniteau= light, full-grown larvae 0-8. (R.E. Munson).

FALL ARMYWORM (Spodoptera frugiperda) - ALABAMA - Area> larvae per 100 sorghum [full head] heads: Central Alabama> 3rd instars 5 in 1 site. (W.N. Stephenson).

GREENBUG (Schizaphis graminum) - CALIFORNIA - District> County= status of this species and CORN LEAF APHID (Rhopalosiphum maidis) on sorghum: Southern California> Imperial= nymphs and adults averaged 100 per leaf at Holtville. (C.S. Papp).

GRASSHOPPERS - ILLINOIS - Survey for 1979 completed. Predominant species Melanoplus differentialis and Melanoplus femurrubrum. Populations seemed much decreased over levels earlier in season. Expected heavy crop damage did not occur except in isolated cases. Grassy roadside and ditchbank areas adjacent to soybean or corn fields sampled, these areas likely for egg laying and not subject to tillage. (K. Black).

District> County	Average per 0.8 sq m	District> County	Average per 0.8 sq m
NW> Whiteside	2.1	WSW> Christian	2.4
NW> Jo Daviess	1.1	WSW> Macoupin	2.3
NW> Winnebago	2.8	WSW> Pike	3.9
NW> Ogle	2.1	WSW> Madison	1.0
NE> McHenry	5.3	ESE> Marion	3.1
NE> Kane	4.9	ESE> Jasper	4.2
NE> Will	1.7	ESE> Edgar	5.6
W> Fulton	2.1	SW> Washington	5.7
W> Hancock	4.2	SW> Jackson	6.2
C> Stark	2.2	SW> Johnson	7.3
C> Woodford	1.1	SE> Saline	2.0
C> Logan	2.6	SE> White	1.7
C> Macon	4.3	SE> Wayne	15.9
E> Champaign	1.6		
E> Iroquois	3.1		

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - KANSAS - District> County= prevalence on seeded wheat: SC> Kiowa= trace in 1 field. (T. Sim, IV).

INSECTS

HESSIAN FLY (Mayetiola destructor) - MISSOURI - District> County= status on volunteer wheat: NW> Buchanan= population heavy, larvae 50% and pupae 50% (J. Jarman), and C> Cooper and Moniteau= pupae in 3 of 4 stubble fields, 21% of plants infested. (R.E. Munson).

ARMY CUTWORM (Euxoa auxiliaris) - NEBRASKA - District> County= larvae on winter wheat: SW> Perkins, Chase, Dundy, and Keith= up to 3rd instar caused up to 25% stand loss in 4 fields. (Campbell).

GRASSHOPPERS (Melanoplus spp.) - MISSOURI - District> County= status on fall-planted wheat: C> Cooper= heavy populations observed. Mostly M. differentialis adults 6-27 per 0.8 sq m. Two fields completely destroyed for 9.1 m from edge. (R.E. Munson).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM (Cercospora zebrina) - KANSAS - Survey on alfalfa, asterisk (*) indicates defoliation (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host height (cm)
EC> Wabaunsee	trace	light	25
NC> Clay	trace to 100	light to severe*	38-46
NC> Republic	100	severe*	66
NC> Mitchell	100	moderate	30

ALFALFA RUST (Uromyces striatus var. medicaginis) - KANSAS - Area> status: C> became more prevalent and SC> obvious on seedling alfalfa. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
EC> Wabaunsee	trace	light	25
NC> Clay	60-65	light	38-46
NC> Republic	100	severe	66
NC> Mitchell	100	moderate	30
SC> Sedgwick	50	light	10 [seedling]
SC> Reno	90-100	severe	10-15 [seedling]

SOUTHERN ANTHRACNOSE (Colletotrichum trifolii) - KANSAS - District> County= status on alfalfa in 1 field each: C> Barton and NE> Pottawatomie= affected plants. (T. Sim, IV).

ALFALFA BACTERIAL LEAF SPOT (Xanthomonas alfalfae) - KANSAS - District> County= prevalence on alfalfa: NC> Clay= trace in 1 field. (T. Sim, IV).

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - ARIZONA - District> County= eggs per 100 sweeps of alfalfa: SW> Yuma= 0-300. (P. Carras et al.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - OREGON - County= status on seed alfalfa: Malheur= heavy in fields along Snake River, treatments recommended. (G. Fisher).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa: C> Maricopa= 4-220, Pinal= 76, SW> Yuma= 80, and SE> Graham= 15. (P. Carras et al.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: C> Maricopa= nymphs 5-53 and adults 4-152, SW> Yuma= adults 30, and SE> Graham= nymphs 35 and adults 35. (P. Carras et al.).

SOYBEANS

DISEASES

SOYBEAN POD AND STEM BLIGHT (Diaporthe phaseolorum var. sojae) - ILLINOIS - District> County= prevalence on soybean [harvest maturity unless stated otherwise] on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= 3% on Wells, ESE> Fayette= 8% on Wells, SW> St. Clair= 4% on Corsoy, Jackson= 3% on Beeson, SE> Pope= 5% on Wells, C> Logan= trace [physiological maturity] on Amsoy, W> McDonough= trace [physiological maturity] on Beeson, NW> Putnam= 1% [physiological maturity] on Wells, and NE> De Kalb= trace [seed full size] on Amsoy. (E.G. Jordan).

SOYBEAN STEM CANKER (Diaporthe phaseolorum var. caulivora) - ILLINOIS - District> County= prevalence on soybean [seed full size unless stated otherwise] stems on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= trace on Kent, ESE> Fayette= trace [physiological maturity] on Kent, C> Logan= trace on Woodworth, W> McDonough= trace [physiological maturity] on Wells, NW> Putnam= trace on Clark, and NE> De Kalb= trace on Cutler 71. (E.G. Jordan).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - KANSAS - District> County= prevalence in 1 soybean field each: EC> Osage= 60% and Franklin= trace. (T. Sim, IV). ILLINOIS - District> County= prevalence/severity on soybean [seed full size unless stated otherwise] leaves on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= 100%/5% on Williams, ESE> Fayette= 100%/2% [physiological maturity] on Clark, SW> St. Clair= 100%/11% [physiological maturity] on Cutler 71, Jackson= 100%/1% on Essex, SE> Pope= 100%/9% [physiological maturity] on Clark 63, C> Logan= 100%/5% on Woodworth, W> McDonough= 100%/2% on Williams, NW> Putnam= 100%/4% on Cutler 71, and NE> De Kalb= 100%/9% on Clark 63. (E.G. Jordan).

BROWN STEM ROT (Phialophora gregata) - ILLINOIS - District> County= prevalence on soybean [seed full size] stems on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= 39% on Clark, C> Logan= 18% on Clark 63, W> McDonough= 11% on Williams, NW> Putnam= trace on Franklin, and NE> De Kalb= 2% on Amsoy 71. (E.G. Jordan).

SOYBEAN BROWN SPOT (Septoria glycines) - ILLINOIS - District> County= prevalence/severity on soybean [seed full size unless stated otherwise] leaves on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= 100%/10% on Elf, ESE> Fayette= 100%/32% [physiological maturity] on Clark, SW> St. Clair= 100%/16% on Union, Jackson= 100%/9% on Essex, SE> Pope= 100%/11% on Essex, C> Logan= 100%/18% on Clark 63, W> McDonough= 100%/10% on Williams, NW> Putnam= 100%/15% [physiological maturity] on Corsoy, and NE> De Kalb= 100%/15% on Wells. (E.G. Jordan).

CHARCOAL ROT (Macrophomina phaseolina) - ILLINOIS - District> County= prevalence on soybean [harvest maturity] stems on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= trace on Amsoy, ESE> Fayette= 18% on Beeson, SW> St. Clair= 62% on Corsoy, Jackson= 18% on Amsoy 71, and SW> Pope= 37% on Amsoy. (E.G. Jordan).

A POWDERY MILDEW (Microsphaera diffusa) - ILLINOIS - District> County= prevalence/severity on soybean [host stage] leaves on cultivar in 1 monitoring plot each, September 4-14: NW> Putnam= trace/trace [seed development] on Kent and NE> De Kalb= trace/trace [seed full size] on Amsoy 71. (E.G. Jordan).

FROGEYE LEAF SPOT (Cercospora sojina) - FLORIDA - District> County= status on soybeans: NW> Gadsden= currently light at Quincy, sharp increase expected (D.C. Herzog) and Santa Rosa= this disease heavy and a LEAF SPOT (Mycosphaerella (Cercospora) cruenta) problem caused by the imperfect stage on soybeans in Jay area (M.C. Donahoe, T.A. Kucharek).

LIMA BEAN ANTHRACNOSE (Colletotrichum dematium var. truncata) - KANSAS - District> County= prevalence on soybeans: EC> Franklin= trace in 1 field. (T. Sim, IV).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - KANSAS - Continued to affect soybeans as plants neared maturity. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host stage
NC> Clay	100	light	leaf drop
EC> Lyon	80	light	leaf drop
EC> Osage	trace	light	leaf drop
EC> Franklin	30-100	light	leaf drop

ILLINOIS - District> County= soybean bacterial blight prevalence/severity on soybean [seed full size unless stated otherwise] leaves on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= 100%/2% on Essex, ESE> Fayette= 100%/8% on Essex, SW> St. Clair= 100%/9% on Essex, Jackson= 100%/15% on Essex, SE> Pope= 100%/1% on Essex, C> Logan= 100%/5% on Woodworth, W> McDonough= 100%/5% on Elf, NW> Putnam= 100%/4% [seed development] on Kent, and NE> De Kalb= 100%/5% on Cutler 71. (E.G. Jordan).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - KANSAS - District> County= prevalence on soybeans: EC> Osage= 100% in 1 field. (T. Sim, IV). ILLINOIS - District> County= prevalence/severity on soybean [seed full size unless stated otherwise] leaves on cultivar in 1 monitoring plot each, September 4-14: E> Champaign= 100%/4% on Clark, ESE> Fayette= 100%/5% [physiological maturity] on Clark, SW> St. Clair= 100%/10% [physiological maturity] on Clark, Jackson= 100%/1% [physiological maturity] on Kent, C> Logan= 100%/11% on Clark, W> McDonough= 100%/8% on Clark, NW> Putnam= 100%/8% on Amsoy 71, and NW> De Kalb= 100%/10% on Corsoy. (E.G. Jordan).

TOBACCO RINGSPOT VIRUS - ILLINOIS - District> County= prevalence of bud blight symptoms on soybean [host stage] cultivars in 1 monitoring plot each, September 4-14: ESE> Fayette= trace [physiological maturity] on Cutler 71, E> Champaign= trace [seed full size] on Kent, SW> St. Clair= trace [harvest maturity] on Beeson, Jackson= trace [harvest maturity] on Clark 63, and SE> Pope= trace [physiological maturity] on Franklin. (E.G. Jordan).

SOYBEAN CYST NEMATODE (Heterodera glycines) - IOWA - New county record. District> County= collection data from Glycine max (soybean): NC> Kossuth= collected from 5 sites at Rake, July 31 to August 1, by G. Thomasson, D.J. Williams, C. Stoltenow, and J. Harri, determined by D.J. Williams and G. Thomasson, and confirmed by S. Stoltenow. (D.J. Williams).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - TENNESSEE - District> County= status on soybeans: Central Basin> Lincoln, Cumberland Plateau> Franklin, and Coffee= damage continued on late beans. Infestations spread to other fields. (J. Cagle).

BEAN LEAF BEETLE (Cerotoma trifurcata) - ALABAMA - Area> adult range (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Coastal Plains> no data (3) [full maturity] and 20% in 1s (T. Lemons), Central Alabama> no data (4) [full seed] and 12% in 1s (W.N. Stephenson), Black Belt> 55-78 (66.5) [beginning maturity] and 5-75% in 2s (T. Pigott), Tennessee River> 12-16 (14.3) [beginning maturity] and 8-10% in 3s (J.E. Gregory), and Sand Mountain> 1-3 (2) [full seed] and 5-10% in 2s (W.A. Smith).

WHITEFRINGED BEETLES (Graphognathus spp.) - ALABAMA - Area> status per 9.1 row m of soybeans [beginning maturity]: Wiregrass> adults averaged 1 and leaf loss 20% in 1 site. (Knox-Wilson). GEORGIA - Area> adults per 4.6 row m of soybeans [seed full size] in 1 site each: SW> 2 (W.T. Glover) and N> 1 (E.W. Elder).

BEET ARMYWORM (Spodoptera exigua) - ALABAMA - Area> larvae per 9.1 row m of soybeans [full seed to full maturity]: Sand Mountain> 2nd instar averaged 1 and leaf loss 10-30% in 3 sites. (W.A. Smith).

GREEN CLOVERWORM (Plathypena scabra) - ALABAMA - Area> larval instar range (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Central Alabama> 2nd no data (4) [full seed] and 30% in 1s (W.N. Stephenson), Black Belt> 2nd no data (1) [beginning maturity] and 5% in 1s (T. Pigott), Tennessee River> 2nd to 3rd 6-11 (8.3) [beginning maturity] and 8-10% in 3s (J.E. Gregory), and Sand Mountain> 3rd no data (1) [full maturity] and 30% in 1s (W.A. Smith).

GEORGIA - Area> green cloverworm larval instar range (average) per 4.6 row m of soybeans [host stage] in number of sites (s): SW> 2nd to 5th 4-14 (9.3) [seed full size to pod yellowing] in 3s (W.T. Glover, W.F. Wood), SE> 2nd to 4th 1-7 (4) [seed development to seed full size] in 2s (W.M. Fortson, W.F. Wood), C> 1st to 5th 1-23 (12) [seed full size] in 2s (W.J. Roberts), and N> 3rd to 4th 2-10 (6) [seed full size] in 2s (E.W. Elder).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= status on soybeans: NW> Jackson= damaging levels in all parts, week of September 21 (J.E. Arnold), Gadsden= currently no treatment needed due to Nomuraea rileyi (an insect fungus) (D.C. Herzog), Santa Rosa= only 40.5 of 1,012 ha needed treatment in Jay area due to N. rileyi (M.C. Donahoe), and C> Alachua, Levy, and NE> Columbia= only 40.5 of 1,416 ha needed treatment, additional 202 ha needed treatment for velvetbean caterpillar and SOUTHERN GREEN STINK BUG (Nezara viridula). (F.W. Mead).

ALABAMA - Area> velvetbean caterpillar larval instar range (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Coastal Plains> 4th 6-8 (7) [full maturity] and 20-30% in 2s (T. Lemons), Wiregrass> 1st to 5th 130-520 (277) [beginning maturity] and 10-20% in 3s (Knox-Wilson), Central Alabama> 2nd to 4th no data (30) [full seed] and 12% in 1s (W.N. Stephenson), and Black Belt> 2nd to 5th 1-40 (14.3) [beginning maturity] and 5-75% in 3s (T. Pigott). GEORGIA - Area> larval instars range (average) per 4.6 row m of soybeans [host stage] in number of sites (s): SW> 1st to 3rd 28-83 (55.5) [seed full size to pod yellowing] in 2s (W.T. Glover), SE> 2nd to 4th 8-14 (10.5) [seed development to seed full size] in 2s (W.M. Fortson), and C> 3rd to 5th 4 (no data) [seed full size] in 1s (W.J. Roberts).

CORN EARWORM (Heliothis zea) - GEORGIA - Area> larval instar range per 4.6 row m of soybeans [seed full size] in number of sites (s): SW> 4th to 5th 6-16 (averaged 11.3) in 3s (W.T. Glover, W.F. Wood), SE> 3rd 21 in 1s (W.F. Wood), C> 2nd to 3rd 6 in 1s (W.J. Roberts), and N> 4th 2 in 1s (E.W. Elder).

SOYBEAN LOOPER (Pseudoplusia includens) - ALABAMA - Area> larval instar range (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Coastal Plains> 2nd to 4th no data (4) [full maturity] and 30% in 1s (T. Lemons), Central Alabama> 1st to 4th 3-40 (18.8) [full seed] and 10-30% in 4s (W.N. Stephenson), Black Belt> 4th to 5th 2-16 (9) [beginning maturity] and 5-75% in 2s (T. Pigott), Tennessee River> 3rd to 4th 3-6 (4.5) [beginning maturity] and 8-10% in 2s (J.E. Gregory), and Sand Mountain> 5th no data (1) [full seed to full maturity] and 10-30% in 2s (W.A. Smith).

GEORGIA - Area> soybean looper larval instar range (average) per 4.6 row m of soybeans [host stage] in number of sites (s): SW> 4th 3-7 (5) [seed full size to pod yellowing] in 3s (W.T. Glover, W.F. Wood), SE> 2nd to 5th 1-13 (7.2) [seed development to seed full size] in 3s (W.M. Fortson, W.F. Wood), C> 1st to 5th 1-19 (10) [seed full size] in 2s (W.J. Roberts), and N> 3rd 2 [seed full size] in 1s (E.W. Elder).

SOUTHERN GREEN STINK BUG (Nezara viridula) - FLORIDA - District> County= status on soybeans: NW> Gadsden= increased, additional fields needed treatment (D.C. Herzog), increased in area near Jay, treatments needed on 24-28 of 1,012 ha. (M.C. Donahoe).

GRASSHOPPERS - ILLINOIS - See corn, sorghum, sugarcane, on page 724.

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - Status on cotton September 10-25 (C.L. Cole et al.):

District> County	Pest stage or damage	Number	Unit sample
Northern Low Plains>			
Dickens	damaged squares	0-4%	
Southern High Plains>			
Howard	adults	0-4	4.0 row m

FLORIDA - District> County= boll weevil status on cotton: NW> Santa Rosa= heavy enough to treat 20 of 124 ha near Jay. (M.C. Donahoe).

BOLLWORMS (Heliothis spp.) - TEXAS - BOLLWORM (H. zea) and TOBACCO BUDWORM (H. virescens) status on cotton September 5-25 (C.L. Cole et al.):

District> County	Eggs	Larvae	Damaged squares	Unit sample (100 unless stated otherwise)
Northern Low Plains>				
Williamson & Milam	0-5%	not given	not given	not given
Northern Low Plains>				
Hardeman	5-25	not given	not given	terminals
Northern Low Plains>				
Hardeman	not given	up to 2,200	not given	0.4 ha
Northern Low Plains>				
Crosby & Floyd	not given	20-100	not given	plants
Northern High Plains>				
Hale	0-40	not given	not given	terminals
Northern High Plains>				
Hale	not given	150-230	not given	plants (untreated fields)
Northern High Plains>				
Hale	0-10	not given	not given	plants
Northern High Plains>	not given	0-50 and	not given	plants
Hale		10-160		(treated fields)
Northern High Plains>				
Floyd at South Plains	not given	up to 50	not given	110 plants

District> County	Eggs	Larvae	Damaged squares	Unit sample (100 unless stated otherwise)
Southern High Plains> Martin	0-1	0-5	0-8	terminals
Southern High Plains> Howard	0-1	0-10	0-18	terminals
Southern High Plains> Midland	0-4	0-4	0-8	terminals
Southern High Plains> Glasscock	0-5	0-6	0-8	terminals
Trans-Pecos> El Paso	0-4	0-4	4-6%	terminals
Trans-Pecos> El Paso	0-15	2-6	10-30%	terminals
Trans-Pecos> Hudspeth	0-5	0-4	2-6	terminals
Trans-Pecos> Culberson	0-5	0-2	0-5	terminals
Trans-Pecos> Reeves	5-10	not given	2-5	terminals
Trans-Pecos> Pecos	5-10	0-6	5-12	terminals
Edwards Plateau> Reagan	0-5	0-4	0-8	terminals
Edwards Plateau> Upton	0-5	0-4	0-8	terminals

FLORIDA - District> County= bollworm status on cotton: NW> Santa Rosa= eggs (averaged 20 per 100 plants in top one-half of plants) and larvae decreased at Jay. Two fields exceeded threshold and treated September 21; no fields over threshold September 24-27. (M.C. Donahoe).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - INDIANA - District> County= adults in 5 pheromone or live-baited traps: SW> Knox= 9. (T. Mouzin).

WESTERN GRAPELEAF SKELETONIZER (Harrisina brillians) - CALIFORNIA - New host records for State on apricot and cherry. District> County= status: San Joaquin Valley> Fresno and Tulare= eggs heavy on Prunus armeniaca (apricot) leaves in spite of available grapes in entire area, 5th instar larvae feeding on apricot in another area considered forced due to depleted grape supply, 1st through 5th instars in third area on apricot in spite of available grapes, and full generation completed on apricots; second generation larvae (pupae also found) completely defoliated Prunus avium (cherry) tree in spite of available grapes in surrounding area, 2 generations completed in spite of abundant grapes in surrounding area, 1st through 5th instar larvae of second generation on Royal Ann cherry in spite of grapevines in surrounding area. All pest specimens determined by T. Eichlin. (C.S. Papp).

APPLE MAGGOT (Rhagoletis pomonella) - INDIANA - District> County= adults in 5 pheromone or baited traps: SW> Knox= 2. (R.W. Meyer). WISCONSIN - District> County= status on apples: EC> Fond du Lac= railroaded apples received, SC> Dane= none in bait traps September 9-16, and NW> Barron= 3 adults on September 15-21. (O.L. Lovett).

PECAN WEEVIL (Curculio caryae) - FLORIDA - District> County= status on pecans: NW> Jefferson= very little infestation in orchards normally infested in past years at Monticello. (J.C. Ball).

BLACK PECAN APHID (Tinocallis caryaefoliae) - FLORIDA - District> County= status on pecans: NW> Jefferson= increased, caused defoliation in some orchards near Monticello. Some routine HICKORY SHUCKWORM (Laspeyresia caryana) controls may not control infestation. (J.C. Ball).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - KANSAS - District> County= status: SE> Cherokee= reported near area where first detected in State. A Scotch pine about 60 years old in a cemetery died due to this nematode. (T. Sim, IV).

INSECTS

EUROPEAN PINE SHOOT MOTH (Rhyacionia buoliana) - WISCONSIN - District> County= pheromone trapping data: EC> Door= first adult trapped July 7 near Sturgeon Bay and last trapped July 16, peaked July 14 with 35 in 5 traps. (O.L. Lovett).

INTRODUCED PINE SAWFLY (Diprion similis) - NORTH CAROLINA - District> County= status of this new pest of white pine: Northern Mountain> Avery= defoliation continued in Crossnore area. Surveys in July revealed occurrence as far east as Raleigh south to Morganton and north to State border. Results from comprehensive survey not available this period. (T.N. Hunt). WISCONSIN - District> County= status on white pine: NW> Chippewa, Washburn, and SW> Crawford= damage serious, larvae destroyed entire planting at Prairie Du Chien in last county. (O.L. Lovett).

BLACK TWIG BORER (Xylosandrus compactus) - FLORIDA - District> County= status on flowering dogwood: C> Alachua= increased during past month, introduction of blue-stained fungus into twigs caused severe wilting and flagging of terminal leaves in Gainesville area. Many other trees and shrubs infested, dogwood damage most conspicuous. (L.A. Hetrick).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= average per head on beef cattle week ending September 21: C> Alachua= 306 at Newberry in small herd. (D. Boyd). TEXAS - Area> adults per head of cattle September 17: Trans-Pecos> 150-800. (C.W. Neeb). NEBRASKA - District> County= average per head on untreated cattle: SW> Lincoln and C> Dawson= 475+. (Campbell). WISCONSIN - District> County= adults per side on cattle: SC> Jefferson and C> Wood= 5-10. (O.L. Lovett).

FACE FLY (Musca autumnalis) - NEBRASKA - District> County= average per face on untreated cattle: SW> Lincoln and C> Dawson= 8.5. (Campbell). WISCONSIN - District> County= counts per head of cattle: SC> Jefferson and C> Wood= 0-2. (O.L. Lovett).

STABLE FLY (Stomoxys calcitrans) - NEBRASKA - District> County= range (average) per leg on cattle: NE> Cuming= 0-4 (2.0) in 6 feedlots, September 19, and SW> Lincoln and C> Dawson= no data (12.6) on untreated cattle. (Campbell). WISCONSIN - District> County= adults per side of cattle: C> Wood= 5 and SC> Jefferson= 15. (O.L. Lovett).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - OREGON - Adult survey of mostly Melanoplus sanguinipes completed statewide. Economic on about 869,029 ha in eastern area. (K.J. Goeden).

County	Hectares with 8 or more per 0.8 sq m	County	Hectares with 8 or more per 0.8 sq m
Baker	182,109	Sherman	19,425
Crook	32,395	Umatilla	13,468
Grant	118,395	Union	30,352
Harney	60,703.1	Wasco	62,985.5
Jefferson	99,973.9	Wheeler	46,878.9
Malheur	202,344		

NEVADA - District> County= adults per 0.8 sq m of alfalfa week ending September 21: S> Clark= averaged 8 on 40.5 ha at Glendale. (S. Steffen, D. Zoller).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status on cotton: C> Maricopa= boll infestation 0-2%, SW> Yuma= damaged fields, and SE> Graham= infestation light; adult pheromone trap catches per trap per day: C> Maricopa= 2-38 and SW> Yuma= 3-132. (C. Mullis et al.).

DETECTION

NEW COUNTY RECORD

DISEASES

SOYBEAN CYST NEMATODE (Heterodera glycines) - IOWA - Kossuth. (p. 728).

LIGHT TRAP COLLECTIONS

	Temperature °C	Precipitation (mm)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Fuxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Mamestra quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
CALIFORNIA																							
Bellota 9/23	14-34		BL	1				6		9						1		2	5	965			2	
Manteca 9/24	14-31		BL					31		4									4	303			8	
FLORIDA																								
Gainesville 9/20-26			BL		1			5													7	2		
KENTUCKY																								
Lexington 9/21-27			BL							2							1	1			1	5		
OHIO (County)																								
Wayne 9/20-26			3BL	11														42	15		19			
TENNESSEE																								
Selmer 9/20-27			BL						6	4							6		17		25	4	12	
Springhill 9/20-27			BL						0	12							10		16		0	4	0	
TEXAS																								
College Station 9/12-26			BL	10	0				1	12					2	0			72		1	2	0	
WEST VIRGINIA (Counties)																								
Monroe 9/25			BL							2									2					
Putnam 9/22-25			BL	1						3						1			6					
WISCONSIN																								
Lancaster 9/13-26			BL	0						2							1	0	3					
Mazomanie 9/20-26			BL	0						0							4	0	1					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Phyllostictina sp. a fungus Det. F. Matthews	imperfect	on leaves of *Yucca* plants from cargo	Honduras	Miami	FL
Coptotermes formosanus Shiraki Formosan subterranean termite Det. R. Munkittrick	adult	in dunnage	South Pacific	San Francisco	CA
Euderes lineicollis Wiedemann a weevil Det. D.R. Whitehead	adult	on dried flowers from cargo	South Africa	Houston	TX
Orthotomicus laricis (Fabricius) a scolytid beetle Det. D.M. Anderson	adult	in dunnage	West Germany	New York	IL
Tetramesa sp. a eurytomid Det. A.S. Menke	larval	in dried flowers from cargo	Italy	New Orleans	AL
Helicella caperata (Montagu) a helicid snail Det. W.D. McLellan	adult	on container with tractor tracks	Italy	New Orleans	LA
Helicella cretica (Ferussac) a helicid snail Det. W.D. McLellan	adult	on dried flowers from cargo	Italy	New Orleans	AL
Veronicella sp. a veronicellid slug Det. C.E. Miller	adult	on leaves of *Sansevieria* plants from baggage	Puerto Rico	San Juan	FL

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

UNITED STATES DEPARTMENT OF AGRICULTURE
Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

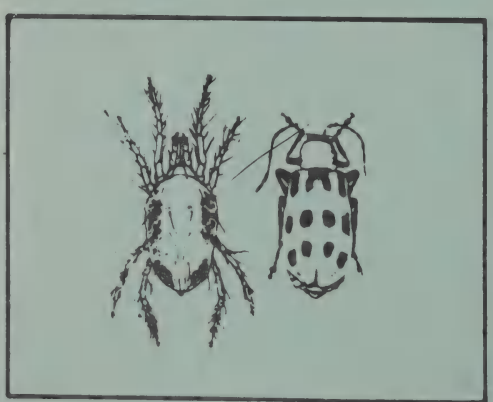
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

October 12, 1979
Vol. 4
No. 38

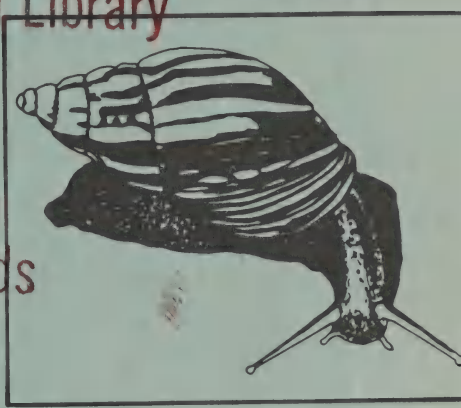
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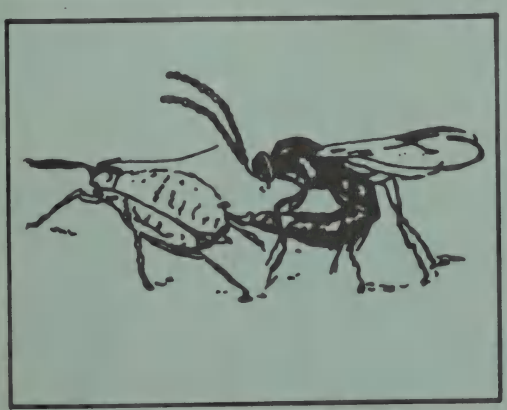
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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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October 12, 1979 4(38):737-754

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER decreased this fall in southeastern North Dakota and Kentucky. (p. 741-742).

Soybean DISEASE survey in Wisconsin. (p. 745-747).

BLUE ALFALFA APHID on alfalfa in Kansas for first time in fall. (p. 745).

Detection

● A DIASPIDID SCALE in Florida is new for continental United States. (p. 750).

New county records on page 752.

Reports in this issue are for the week ending October 5 unless otherwise indicated.

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DISEASES

SOUTHERN LEAF BLIGHT (Cochliobolus (Bipolaris) heterostrophus) - OHIO - District> County= prevalence/severity of Bipolaris maydis stage on corn [dent] leaves in number of commercial fields (f) or monitoring plots (m) week ending September 14: SC> Scioto= 100%/50% in special experimental trial plots, SW> Butler= 100%/5% in 1f, Clinton= 100%/10-40% in 1f, NE> Wayne= 100%/50-100% on hybrid W64 AHt X W117Ht in 1m, and SE> Perry= 100%/trace to 20% in 1f. (R. Hite).

NORTHERN LEAF BLIGHT (Setosphaeria (Exserohilum) turcica) - OHIO - District> County= prevalence/severity of imperfect stage on corn [dent] week ending September 14: NE> Wayne= 50%/50% on inbred B73 in 1 monitoring plot. (R. Hite).

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus* (Bipolaris) carbonum) - OHIO - District> County= prevalence/severity of imperfect stage on corn [dent] leaves week ending September 14: SW> Warren= 50%/trace to 5% in 1 commercial field. (R. Hite).

COMMON SMUT (Ustilago maydis) - OHIO - District> County= prevalence on corn [dent] stalks in 1 commercial field each, week ending September 14: SW> Butler= 3%, Brown= 4%, C> Knox= 1%, Ross= trace, SC> Scioto= trace, SE> Perry= 18%, NC> Ashland= 3%, Crawford= 2%, and Erie= 3%. (R. Hite).

HEAD SMUT (Sphacelotheca reiliana) - KANSAS - District> County= prevalence on sorghum: NW> Thomas= trace in 1 field. (T. Sim, IV).

COMMON MAIZE RUST (Puccinia sorghi) - KANSAS - Survey on corn (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
EC> Lyon	70-100	5-65
EC> Coffey	80	10
EC> Osage	100	10
EC> Wabaunsee	80-100	10-40
EC> Geary	30-50	10-25
EC> Morris	90-100	25
EC> Chase	80	25
NE> Jackson	100	10-25
C> Dickinson	100	40
C> Saline	20-40	5
C> Marion	15-100	10-40
C> Rush	100	10
SE> Labette	not observed	
SE> Crawford	not observed	
SE> Bourbon	not observed	
NC> Mitchell	75	trace
NC> Smith	trace to 100	trace to 10
NC> Osborne	100	10
NC> Rooks	30	5

(continued next page)

* Luttrell, E.S. 1977. Biosystematics of Helminthosporium: impact on agriculture. Pages 193-209 in L. Knutson, Chairman. Beltsville symposia in agricultural research [2], biosystematics in agriculture. Allanheld, Osmun & Co. Publishers Inc., Montclair, New Jersey.

District> County	Prevalence (%)	Severity (%)
NC> Phillips	5-100	trace to 10
NW> Graham	100	trace
NW> Norton	2-100	trace to 10
NW> Decatur	40	trace
NW> Sheridan	80-100	trace to 5
NW> Thomas	100	5
NW> Cheyenne	100	5
NW> Sherman	100	trace to 10
WC> Wallace	100	5-40
WC> Greeley	100	20
WC> Wichita	80	trace to 5
WC> Scott	100	10-20
WC> Lane	100	5-10
WC> Gove	100	10-25

OHIO - District> County= common maize rust prevalence/severity on corn [dent] leaves in number of commercial fields (f) week ending September 14: SC> Scioto= 100%/trace to 5% in experimental lines, C> Ross= trace/trace in 1f, and SW> Warren= 10%/trace to 2% in 1f. (R. Hite).

SORGHUM LEAF RUST (Puccinia purpurea) - KANSAS - Survey on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NC> Osborne	trace to 100	trace to 5
NC> Phillips	25	5
NW> Sheridan	trace	trace

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - OHIO - District> County= prevalence/severity on corn [dent] leaves in number of commercial fields (f) or monitoring plots (m) week ending September 1: SC> Brown= 100%/25-30% in 2f, Scioto= trace to 100%/trace to 50% in various experimental lines and hybrids in virus study plots, SW> Clinton= 100%/5-10% in 1f, Warren= 100%/trace to 10% in 1f, C> Licking= 100%/40-70% in 2f and 100%/50-75% in 1f, SE> Perry= 100%/trace to 20% in 1f, NE> Wayne= 100%/30% on inbred C 123 in 1m, and NC> Ashland= 100%/5% in 1f. (R. Hite).

FUSARIUM HEAD BLIGHT (Gibberella (Fusarium) moniliforme) - KANSAS - Imperfect stage on sorghum (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NW> Decatur	50	30
NW> Thomas	30	10
NW> Rawlins	20	5

RED EAR ROT (Gibberella (Fusarium) roseum f.sp. cerealis) - OHIO - District> County= prevalence on corn [dent] ears week ending September 14: SE> Perry= 50% in 1 commercial field. (R. Hite).

CORN EYESPOT (Kabatiella zeae) - OHIO - District> County= prevalence/severity on corn [dent] leaves in number of commercial fields (f) week ending September 14: SE> Perry= 100%/40-50% and 100%/40% in 2f, C> Knox= trace/trace in 1f, and NC> Erie= 100%/55-70% in 1f. (R. Hite).

BACTERIAL STRIPE (Pseudomonas andropogoni) - KANSAS - Most prevalent sorghum disease in northern and western areas. Survey on sorghum [hard dough] (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)
NC> Osborne	40	light
NC> Smith	trace	light
NC> Rooks	100	light to moderate
NW> Sheridan	80-100	light to moderate
NW> Rawlins	100	light
NW> Cheyenne	100	moderate
WC> Wallace	100	moderate
WC> Scott	100	moderate
WC> Lane	100	moderate
WC> Gove	20	light

OHIO - District> County= bacterial stripe prevalence/severity on corn [dent] leaves in number of commercial fields (f) week ending September 14: SW> Clinton= 100% in portions of field/5% in 1f, Warren= 50%/trace in 1f, C> Knox= 20-30%/10-15% in 1f, and SC> Scioto= 100%/5-10% on 1 variety in varietal trial plots. (R. Hite).

HOLCUS SPOT (Pseudomonas syringae) - KANSAS - District> County= prevalence on sorghum: NC> Osborne= 90% in 1 field. (T. Sim, IV).

SORGHUM LEAF STREAK (Xanthomonas holcicola) - KANSAS - District> County= prevalence on sorghum in 1 field each: NC> Osborne and Rooks= trace. (T. Sim, IV).

STEWART'S WILT (Erwinia stewartii) - OHIO - District> County= prevalence/severity on corn [dent] leaves in 1 commercial field each, week ending September 14: SW> Butler and Clinton= trace/trace. (R. Hite).

BACTERIAL STALK ROT (Erwinia spp.) - OHIO - District> County= prevalence on corn [host stage] stalks in 1 commercial field each, week ending September 14: SC> Brown= 3-5% [dent] in spots and Scioto= 5-10% [soft dough] in spots. (R. Hite).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - KANSAS - District> County= percent of upper stems of sorghum [milk to dough] infested in and near head region in number of fields (f): C> Dickinson= 0% in 2f, NC> Clay= 2% in 1f, Cloud= 0% in 1f, Jewell= 0% in 1f, Republic= 0-10% in 2f, Washington= 0% in 1f, EC> Lyon= 0% in 1f, and SE> Greenwood= 1% in 1f, September 24 to October 4 (B.D. Hilbert); SC> Kiowa= trace to 56% in 4f, Pratt= 0-28% in 5f, Kingman= 0% in 2f, Stafford= 0% in 1f, Sedgwick= 20% in 1f, and C> McPherson= 12% in 1f, September 25 to October 2 (G.A. Salsbury). MISSOURI - District> County= status on sorghum: W> Bates= larval feeding light on 16% and 23% of plants in 2 fields. (R.E. Munson).

NORTH DAKOTA - European corn borer showed decrease in populations over 1978. Larvae in 5 southeastern counties ranged 0-500 (averaged 151) per 100 corn plants but averaged 288 per 100 plants last year. Plants infested decreased from 99% in 1978 to 88% in 1979. (C.G. Scholl).

District> County	European corn borer larvae per 100 plants				Plants infested (%)	
	1978		1979		1978	1979
	Average	Range	Average	Range		
EC> Cass	510	48-950	139	0-400	99	84
SE> Dickey	197	92-300	304	88-500	98	96
SE> Ransom	290	50-550	78	0-200	100	83
SE> Richland	230	100-350	112	0-336	100	90
SE> Sargent	214	0-500	124	46-250	98	89

MINNESOTA - European corn borer 4th and 5th instar larvae in 20 corn fields in central and south-central districts. District> larval average per 100 corn plants and average corn plants infested [host height] week ending September 28: C> 12 and 12 [2.3 m] and SC> 30 and 20 [3 m]; currently in 20 fields: C> Scott and Carver= 8 and 4, EC> Washington= 16 and 16, and SE> Dakota= 24 and 16. (D.D. Sreenivasam).

KENTUCKY - European corn borer larval populations on corn well below levels of last couple years, indicates downward side of cycle and problems should be minimal for next few years. (P.E. Sloderbeck).

District> County	Live larvae per 100 plants	Stalks damaged (%)	Incidence of damage per 100 plants
Purchase> Ballard	2	16	18
Purchase> Graves	2	28	28
Purchase> Hickman	14	33	14
Purchase> Marshall	17	32	61
Midwestern> Henderson	9	11	16
Midwestern> Hopkins	8	13	13
Midwestern> Todd	3	14	20
Midwestern> Union	55	43	72
Central> Hardin	12	24	28
Central> Warren	3	9	9
Bluegrass> Madison	10	7	12
1979 average	13	21	29
1978 average	150	75	300
1977 average	115	57	181

NORTH CAROLINA - District> County= European corn borer status on corn: Southern Coastal> Bladen, Robeson, Sampson, Harnett, and Central Coastal> Johnston= surveys revealed increase in percent stalks lodged. Lodging in 35 fields exceeded 50%, ranged 5-75%, September 26 to October 4. (T.N. Hunt). OHIO - Adult flight dropping off in blacklight traps week ending September 15. See page 752. District> County= status: NE> Cuyahoga= 1 unhatched egg mass detected in northeastern counties, August 10. Larvae per plant [all kernels dented unless stated otherwise] in corn fields based on total sample of 20 plants from 3 random locations per field, September 10-11: NE> Medina= 0.10, Cuyahoga= 0.40, Portage= 0.10, Geauga= 0.05, Lake= 0.20 [silk], Ashtabula= 0.05, Trumbull= 0.05, and Mahoning= less than 0.05 [silk]. (G.P. Walker).

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - KANSAS - Late season infestations in corn unusually light in areas normally infested past few years. (M.L. Shuman et al.). District> County= lodged stalks: C> Barton= 30-50% in field after high winds October 1, and most lodged stalks had been girdled, and SC> Stafford= 30%, most lodged stalks had been mostly girdled, most fields harvested before high winds. (G.A. Salsbury).

CORN EARWORM (Heliothis zea) - MINNESOTA - Larvae trace in field corn week ending September 28. Damage not likely as corn hard enough to discourage feeding. (D.D. Sreenivasam). OHIO - District> County= larvae on corn week ending September 14: NE> Lake= only 1 in fields in northeastern counties. (G.P. Walker).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status on fancy sweet corn: C> Alachua= treatment required on 16 ha at Alachua, larvae in silks of about 4% of ears, afternoon rains washed off recent treatments. (R.B. Baker). NORTH CAROLINA - Appeared to be rapidly pupating from whorl corn and sorghum week ending August 10. Adults migrating northward; corn and sorghum [whorl or early tassel] attractive for next 3 weeks. District> County= status from surveys August 6: Western Piedmont area and Western Mountain> Transylvania, Henderson, Buncombe, and Polk= infested 90+% of plants in 8.1-12 ha fields, larvae averaged 3-4 per plant before treatment, about 2,000 ha treated, 1,000+ ha in French Broad River Valley. (T.N. Hunt).

CORN ROOTWORMS (Diabrotica spp.) - OHIO - NORTHERN CORN ROOTWORM (D. longicornis) adults decreased week ending September 14. (S.L. Clement). District> County= adults per corn [all kernels dented unless stated otherwise] plant in fields based on total sample of 20 plants from 3 random locations per field, September 10-11: NE> Medina= 0.20, Cuyahoga= less than 0.05, Portage 0.05, Geauga= less than 0.05, Lake= 0.10 [silk], Ashtabula= less than 0.05, Trumbull= less than 0.05, and Mahoning= 0.30 [silk]. (G.P. Walker). MINNESOTA - D. longicornis and WESTERN CORN ROOTWORM (D. virgifera) adults still appearing week ending September 28. Egg laying underway. (D.D. Sreenivasam).

CORN LEAF APHID (Rhopalosiphum maidis) - OHIO - Percent plants infested and counts on infested plants appeared to increase week ending September 14. District> County= percent infested on corn [all kernels dented unless stated otherwise] fields based on total sample of 20 plants from 3 random locations per field, September 10-11: NE> Medina= 95%, Cuyahoga= 90%, Portage= 45%, Geauga= 90%, Lake= 25% [silk], Ashtabula= 15%, Trumbull= 80%, and Mahoning= less than 5% [silk]. (G.P. Walker).

AN APHID (Rhopalosiphum padi) - INDIANA - Area> status on corn: Northern one-half> widespread and often so heavy that green leaves shine with honeydew. Where corn drier, aphids often cover few green spots on leaves and stalks. Colonies often include this species and CORN LEAF APHID (Rhopalosiphum maidis). (D.L. Matthew, R.W. Meyer).

SMALL GRAINS

DISEASES

WHEAT STREAK MOSAIC VIRUS - KANSAS - District> County= status on volunteer wheat in 1 field each: SC> Pratt= all plants dead near Iuka, and Pawnee= prevalence trace. (T. Sim, IV).

INSECTS

FALL ARMYWORM (Spodoptera frugiperda) - MARYLAND - District> County= larvae per 0.09 sq m on newly seeded barley: NC> Queen Annes= 2-20 in 24 ha near Centreville, defoliated 10% of fields, and sprays applied. (J.L. Hellman).

AN APHID (Rhopalosiphum padi) - INDIANA - Area> status: Northern one-third> heavy on winter wheat, colonies often include this species and CORN LEAF APHID (Rhopalosiphum maidis). (D.L. Matthew, R.W. Meyer).

TURF, PASTURES, RANGELAND

INSECTS

GLASSY CUTWORM (Crymodes devastator) - IDAHO - District> County= larvae on seed bluegrass September 28: N> Kootenai= destroyed large patches of 48.6-ha field near Rathdrum. (H.W. Homan).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (Cerospora medicaginis) - KANSAS - Most prevalent alfalfa disease in north-central and northwestern areas. Some defoliation occurred over wide area. Defoliation in every area surveyed. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
NC> Osborne	100	heavy	46-61
NC> Smith	100	heavy	46-56
NC> Rooks	100	heavy	76
NC> Phillips	30	moderate	25
NW> Norton	100	moderate	38
NW> Decatur	30	light	61
WC> Wallace	trace	light	30
WC> Greeley	trace	light	46
WC> Wichita	80	light	61
WC> Scott	100	moderate	46

ALFALFA RUST (Uromyces striatus) - KANSAS - Area> status on alfalfa: NC and NW> fairly widespread and WC> very little rust in fields. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
NC> Osborne	100	10-25	46-61
NC> Smith	100	10-40	46-56
NC> Rooks	100	trace	76
NC> Phillips	100	5-10	25
NW> Norton	100	25	38
NW> Decatur	80	5	61
WC> Wallace	trace	trace	30

A CROWN ROT (Fusarium sp.) - KANSAS - District> County= prevalence on alfalfa: NW> Decatur and WC> Wallace= trace in single fields. (T. Sim, IV).

ALFALFA MOSAIC VIRUS - KANSAS - District> County= prevalence on alfalfa: WC> Greeley= trace in 1 field. (T. Sim, IV).

INSECTS

ALFALFA WEEVIL (Hypera postica) - KANSAS - District> County= counts on alfalfa [host stage]: NC> Jewell= adults averaged 1 per 100 sweeps [4 cm tall], and Clay, Cloud, Republic, Washington, C> Dickinson, EC> Wabaunsee, Morris, and

Shawnee= none swept [20 cm tall to bloom] September 24 to October 4. (B.D. Hilbert). MISSOURI - District> County= adults per 10 sweeps of alfalfa: SW> Barton and Dade= 3-14 and active. (R.E. Munson).

ALFALFA LOOPER (Autographa californica) - WASHINGTON - District> County= adults caught (average per trap): W> Snohomish, Skagit, and Whatcom= 272 (22.7) week ending September 10, 930 (77.5) week ending September 17, and 725 (60.4) week ending September 24. (P. Eide).

FALL ARMYWORM (Spodoptera frugiperda) - MISSOURI - District> County= small larvae per 10 sweeps of red clover and alfalfa: SW> Barton and Dade= 2-12, light to moderate. (R.E. Munson).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= larval counts on alfalfa: C> Pinal= 16 per 100 sweeps and Maricopa= 7-15 per 50 sweeps. (F. Brooks et al.). NEW MEXICO - Area> status on alfalfa week ending September 28: Pecos Valley> controls applied where populations caused extensive damage. (B. Campbell).

PEA APHID (Acyrthosiphon pisum) - MINNESOTA - District> County= larval and adult averages per 100 sweeps of alfalfa: C> Scott and Carver, EC> Washington, and SE> Dakota= 500 in 20 fields. (D.D. Sreenivasam).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - KANSAS - First time on alfalfa in State in fall. District> County= counts on alfalfa [host stage]: SE> Allen= trace [15 cm tall] October 2 (S.C. White) and NC> Washington= trace [bloom] September 26 (B.D. Hilbert).

SPOTTED ALFALFA APHID (Therioaphis maculata) - KANSAS - District> County= counts on alfalfa [height]: SC> Kingman= trace on seedling alfalfa [5 cm], September 26 (G.A. Salsbury); NC> Rooks, NW> Graham, and Rawlins= trace on seedling alfalfa [8-10 cm] (K.O. Bell, Jr.); C> Dickinson, NC> Clay, Cloud, Jewell, Republic, Washington, EC> Wabaunsee, Morris, and Shawnee= averaged 0-150 per 10 sweeps [20 cm to bloom] in 10 fields, September 24 to October 4 (B.D. Hilbert); and SE> Allen= averaged 2 per sweep [15 cm] (S.C. White).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= counts on wheat: C> Pinal= adults 26 per 100 sweeps, Maricopa= adults 58-116 per 50 sweeps, and SW> Yuma= very heavy populations treated. (F. Brooks et al.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= adults and nymphs on alfalfa: C> Pinal= 12-28 and 35 per 100 sweeps, Maricopa= 25-47 and no data per 50 sweeps, and SW> Yuma= 12 and no data per 100 sweeps. (F. Brooks et al.).

SOYBEANS

DISEASES

SOYBEAN POD AND STEM BLIGHT (Diaporthe phaseolorum var. sojae) - WISCONSIN - District> County= prevalence/severity on soybeans in 1979 survey. SC> Rock= 16%/5%, Dane= 2%/1%, Jefferson= 11%/3%, Columbia= 12%/4%, Green= 2%/1%, Dodge= 1%/1%, SE> Racine= 0%/0%, Kenosha= 3%/1%, Walworth= 1%/1%, Waukesha= 1%/1%, Milwaukee= 1%/1%, WC> Dunn= 0%/0%, St. Croix= 0%/0%, Trempealeau= 17%/1%, Pepin= 0%/0%, Pierce= 0%/0%, SW> Lafayette= 2%/1%, Sauk= 2%/1%, Crawford= 23%/1%, EC> Winnebago= 0%/0%, and Fond du Lac= 0%/0%; average for State 4%/1%. (O.L. Lovett).

PHYTOPHTHORA ROT (Phytophthora megasperma var. sojae) - WISCONSIN - Infected and destroyed plants in 15 of 21 counties, most severe damage in southeastern counties. Prevalence 30% in 1 field in Jefferson County. More damaging over broader area than in 1978. District> County= prevalence/severity of root rot on soybeans in 1979 survey: SC> Rock= 12%/30%, Dane= 3%/10%, Jefferson= 13%/38%, Columbia= 1%/1%, Green= 1%/3%, Dodge= 1%/5%, SE> Racine= 6%/23%, Kenosha= 13%/39%, Walworth= 5%/18%, Waukesha= 2%/8%, Milwaukee= 15%/50%, WC> Dunn= 0%/0%, St. Croix= 0%/0%, Trempealeau= 0%/0%, Pepin= 4%/11%, Pierce= 0%/0%, SW> Lafayette= 4%/11%, Sauk= 1%/2%, Crawford= 0%/0%, EC> Winnebago= 1%/2%, and Fond du Lac= 1%/5%; average for State 4%/12% in 36 of 72 fields. (O.L. Lovett).

BROWN STEM ROT (Phialophora gregata) - WISCONSIN - Some soybean fields had 50+% of plants infected by end of September. District> County= prevalence/severity on soybeans in 1979 survey: SC> Rock= 28%/14%, Dane= 0%/0%, Jefferson= 14%/8%, Columbia= 0%/0% Green= 4%/1%, Dodge= 0%/0%, SE> Racine= 9%/6%, Kenosha= 10%/5%, Walworth= 4%/2%, Waukesha= 0%/0%, Milwaukee= 1%/1%, WC> Dunn= 1%/1%, St. Croix= 1%/1%, Trempealeau= 0%/0%, Pepin= 0%/0%, Pierce= 1%/5%, EC> Winnebago= 1%/1%, Fond du Lac= 0%/0%, SW> Lafayette= 1%/1%, Sauk= 0%/0%, and Crawford= 100%/23%; average for State 5%/3% in 33 of 72 fields. (O.L. Lovett).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - WISCONSIN - District> County= prevalence/severity on soybeans in 1979 survey: SC> Rock= 5%/1%, Dane= 7%/1%, Jefferson= 4%/1%, Columbia= 3%/1%, Green= 56%/1%, Dodge= 35%/1%, SE> Racine= 19%/1%, Kenosha= 22%/1%, Walworth= 31%/2%, Waukesha= 52%/3%, Milwaukee= 31%/1%, WC> Dunn= 80%/1%, St. Croix= 0%/0%, Trempealeau= 12%/1%, Pepin= 46%/1%, Pierce= 8%/1%, SW> Lafayette= 7%/1%, Sauk= 0%/0%, Crawford= 0%/0%, EC> Winnebago= 65%/1%, and Fond du Lac= 6%/1%; average for State 23%/1%. (O.L. Lovett).

A POWDERY MILDEW (Microsphaera diffusa) - WISCONSIN - Present in 10 counties in 1979. More prevalent this year than in 1978 due to survey later in season. District> County= prevalence/severity on soybeans in 1979 survey: SC> Rock= 4%/1%, Dane= 0%/0%, Jefferson= 10%/2%, Columbia= 5%/1%, Green= 0%/0%, Dodge= 50%/1%, SE> Racine= 10%/1%, Kenosha= 1%/1%, Walworth= 6%/1%, Waukesha= 1%/1%, Milwaukee= 8%/1%, WC> Dunn= 0%/0%, St. Croix= 0%/0%, Trempealeau= 0%/0%, Pepin= 0%/0%, Pierce= 0%/0%, SW> Lafayette= 0%/0%, Sauk= 0%/0%, Crawford= 1%/ 1%, EC> Winnebago= 0%/0%, and Fond du Lac= 0%/0%; average for State 5%/1%. (O.L. Lovett).

SOYBEAN BROWN SPOT (Septoria glycines) - WISCONSIN - One of 2 most common foliar diseases of soybeans. District> County= prevalence/severity on soybeans in 1979 survey: SC> Rock= 63%/9%, Dane= 37%/4%, Jefferson= 87%/15%, Columbia= 61%/18%, Green= 16%/1%, Dodge= 7%/1%, SE> Racine= 68%/9%, Kenosha= 74%/10%, Walworth= 75%/6%, Waukesha= 52%/4%, Milwaukee= 84%/12%, WC> Dunn= 1%/1%, St. Croix= 42%/2%, Trempealeau= 0%/0%, Pepin= 25%/1%, Pierce= 30%/1%, SW> Lafayette= 2%/1%, Sauk= 28%/2%, Crawford= 0%/0%, EC> Winnebago= 53%/1%, and Fond du Lac= 5%/1%; average for State 39%/5%. (O.L. Lovett).

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - WISCONSIN - One of 2 most common foliar diseases of soybeans. District> County= prevalence/severity on soybeans in 1979 survey: SC> Rock= 19%/2%, Dane= 13%/1%, Jefferson= 1%/1%, Columbia= 6%/1%, Green= 95%/6%, Dodge= 0%/0%, SE> Racine= 10%/1%, Kenosha= 2%/1%, Walworth= 29%/2%, Waukesha= 28%/2%, Milwaukee= 4%/1%, WC> Dunn= 0%/0%, St. Croix= 25%/1%, Trempealeau= 100%/18%, Pepin= 2%/1%, Pierce= 25%/1%, SW> Lafayette= 96%/32%, Sauk= 0%/0%, Crawford= 100%/23%, EC> Winnebago= 25%/1%, and Fond du Lac= 50%/2%; average for State 30%/15%. (O.L. Lovett).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - WISCONSIN - Found in 5 of 72 soybean fields located in 4 counties in southeastern area. In last 2 years only found in SC> Rock, Dane, SE> Racine, Kenosha, and Walworth Counties. District> County= prevalence/severity on soybeans in 1979 survey: SC> Rock= 5%/1%, Dane= 1%/1%, Jefferson= 0%/0%, Columbia= 0%/0%, Green= 0%/0%, Dodge= 0%/0%, SE> Racine= 0%/0%, Kenosha= 1%/1%, Walworth= 13%/1%, Waukesha= 0%/0%, Milwaukee= 0%/0%, WC> Dunn= 0%/0%, St. Croix= 0%/0%, Trempealeau= 0%/0%, Pepin= 0%/0%, Pierce= 0%/0%, SW> Lafayette= 0%/0%, Sauk= 0%/0%, Crawford= 0%/0%, EC> Winnebago= 0%/0%, and Fond du Lac= 0%/0%; average for State 1%/1%. (O.L. Lovett).

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - ALABAMA - Area> adult range if stated (average) per 9.1 row m of soybeans [full maturity] and percent leaf loss in number of sites (s): Coastal Plains> (2) and 30% in 1s (T. Lemons) and Tennessee River> 1-2 (1.7) and 20% in 3s (J.E. Gregory). MARYLAND - District> County= status on soybeans: Eastern Shore> Dorchester, Caroline, Talbot, NC> Kent, and Queen Annes= overwintering populations heaviest since 1977. Populations will likely contribute to above normal spring damage in 1980. (J.L. Hellman).

BEAN LEAF BEETLE (Cerotoma trifurcata) - ALABAMA - Area> range if stated (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Coastal Plains> (8) [full maturity] and 15% in 1s (T. Lemons), Central Alabama> 10-14 (12) [full seed to beginning maturity] and 12-16% in 3s (W.N. Stephenson), Tennessee River> 3-5 (4) [full maturity] and 20% in 2s (J.E. Gregory), and Sand Mountain> (2) and 5% in 1s (W.A. Smith).

WHITEFRINGED BEETLES (Graphognathus spp.) - ALABAMA - Area> status on soybeans [full seed]: Central Alabama> adults averaged 2 per 9.1 row m and leaf loss 25% in 1 site. (W.N. Stephenson).

SOYBEAN LOOPER (Pseudoplusia includens) - MISSISSIPPI - Area> this species and CABBAGE LOOPER (Trichoplusia ni) on late soybeans: C and S> counts heavy. (R. Anderson). ALABAMA - Area> larval instar range if stated (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Coastal Plains> 1st 1-7 (4) [full maturity] and 15-30% in 2s (T. Lemons), Wiregrass> 3rd (6) [full maturity] and 10% in 1s (Knox-Wilson), Central Alabama> 2nd 2-8 (4.5) [full seed] and 12-35% in 4s (W.N. Stephenson), Tennessee River> 3rd to 4th 3-7 (4.8) [full maturity] and 20% in 5s (J.E. Gregory), and Sand Mountain> 3rd 1-3 (2) [full seed to beginning maturity] and 10% in 2s (W.A. Smith). FLORIDA - District> County= counts per 0.3 row m of soybeans: C> Alachua, Levy, and NE> Columbia= averaged 1 in 28 ha. (R.B. Baker).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - ALABAMA - Area> larval instar range if stated (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Coastal Plains> 1st to 3rd 3-21 (12) [full maturity] and 15-20% in 3s (T. Lemons), Wiregrass> 1st to 5th 66-220 (128) [full maturity] and 20-40% in 3s (Knox-Wilson), Central Alabama> 2nd to 4th 18-28 (23) [full seed to beginning maturity] and 15-16% in 2s (W.N. Stephenson), and Tennessee River> 4th (2) [full maturity] and 20% in 2s (J.E. Gregory).

FLORIDA - District> County= velvetbean caterpillar status on soybeans: NW> Jackson= populations decreased week ending September 28 (J.E. Arnold), Santa Rosa= 60.7 of 1,012 ha required treatment in Jay area, late September and early

October (M.C. Donahoe), C> Alachua, Levy, and NE> Columbia= velvetbean caterpillar averaged 3-4 per 0.3 row m and treatments recommended on 28 ha of late-planted soybeans (R.B. Baker).

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - District> County= status on soybeans week ending August 10: Southern Coastal> Sampson, Robeson, Bladen, Central Coastal> Wayne, and Johnston= none of 30 fields at threshold. Small larvae (1st instar to 10 mm long) up to 30 per 2 m sample, no fields had 2 larvae 10 mm long or larger per 0.3 row m, in all southern and central Coastal Plain, open-canopy fields August 6-9. All indicators point toward moderate to heavy infestations in southern Coastal Plain area, all fields should be sampled weekly next 3 weeks. Larval development rapid in present temperatures. Northern Coastal> Edgecombe, Halifax, Bertie, Nash, and Central Coastal> Wilson= 80% of fields have open canopies, Central Coastal> south of Wayne, Pitt, and Wilson= ratio of open fields to closed fields about 50:50 to date, larval populations did not develop. (Anderson, Stutts).

GREEN CLOVERWORM (Plathypena scabra) - ALABAMA - Area> 2nd to 3rd instar larval range if stated (average) per 9.1 row m of soybeans [host stage] and percent leaf loss in number of sites (s): Central Alabama> (4) [full seed] and 16% in 1s (W.N. Stephenson), and Tennessee River> 2-5 (3.3) [full maturity] and 20% in 4s (J.E. Gregory).

BEET ARMYWORM (Spodoptera exigua) - ALABAMA - Area> 3rd instar larvae on soybeans [full seed]: Sand Mountain> averaged 1 per 9.1 row m and leaf loss 5% in 1 site. (W.A. Smith).

STINK BUGS - FLORIDA - District> County= status of mostly SOUTHERN GREEN STINK BUG (Nezara viridula) on soybeans week ending September 28: NW> Jackson= may be problem until harvest (J.E. Arnold); Santa Rosa= heavy enough to require treatment on 202 of 1,012 ha in Jay area during last period (M.C. Donahoe); and C> Alachua, Levy, and NE> Columbia= 80.9 of 1,012 ha required treatment during last period (R.B. Baker). MISSISSIPPI - Area> GREEN STINK BUG (Acrosternum hilare), BROWN STINK BUG (Euschistus servus), and N. viridula status on soybeans: Statewide> continued to damage and cause problems on late soybeans, and S> populations heaviest where controls applied to many fields. (R. Anderson).

PEANUTS

INSECTS

GRANULATE CUTWORM (Feltia subterranea) - FLORIDA - District> County= counts per 0.3 row m of peanuts: C> Levy= averaged 3-4 last period and 8.1 ha south of Chiefland had to be treated. (R.B. Baker).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - FLORIDA - District> County= status on cotton: NW> Santa Rosa= economic on 24 of 125 ha near Jay. (M.C. Donahoe).

SOUTH CAROLINA - Following boll weevil adults trapped September 8-21 with many traps nonfunctional due to wind damage from Hurricane David. (M. Alexander et al.).

District> County	Range per trap	Mean per trap	Total caught
E> Marlboro	0-279	16	4,839
E> Marion	0-42	16	97
E> Florence	0-41	21	148
E> Dillon	0-214	19	2,214
E> Darlington	0-48	10	431

TEXAS - Boll weevil adults on cotton September 24 to October 1. (D.G. Foster):

District> County	Number	Unit sample
Southern High Plains> Martin	none	trapped
Southern High Plains> Howard	1-4	4.0 row m in some areas
Edwards Plateau> Reagan	20-30	trapped per week

SUGAR BEETS

INSECTS

ZEBRA CATERPILLAR (Ceramica picta) - IDAHO - District> County= status on sugar beets: Treasure Valley area> infestations very light in most fields and SW> Canyon= populations heavy in spots in 2 fields with heavy damage at Caldwell, about 40-50% of larvae carrying 1-4 eggs of a parasitic fly. (C.R. Baird, G.W. Bishop).

BERTHA ARMYWORM (Mamestra configurata) - IDAHO - District> County= status on sugar beets: Treasure Valley area> infestations very light in most fields and SW> Canyon= populations heavy in spots in 2 fields with heavy damage at Caldwell, about 40-50% of larvae carrying 1-4 eggs of a parasitic fly. (C.R. Baird, G.W. Bishop).

GENERAL VEGETABLES

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - District> County= status of this species and BEET ARMYWORM (Spodoptera exigua) on lettuce: SW> Yuma= populations heavy, controls in progress at Parker. (T. Svoboda).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - INDIANA - District> County= counts in 5 pheromone or live-baited traps: SW> Knox= 4 from September 27 to October 3 (T. Mouzin) and WC> Tippecanoe= 0 from September 29 to October 4. (R.W. Meyer). OHIO - District> County= larvae on unsprayed apple trees September 11: NE> Lake= last instar in fruits. (G.P. Walker).

APPLE MAGGOT (Rhagoletis pomonella) - INDIANA - District> County= counts in 5 pheromone or baited traps: SW> Knox= 2 from September 27 to October 3 (T. Mouzin) and WC> Tippecanoe= no traps set September 29 to October 4 (R.W. Meyer).

OTHER TROP. & SUBTROP. FRUITS

INSECTS

A DIASPIDID SCALE (Pseudaonidia trilobitiformis (Green)) - FLORIDA - New continental United States record. District> County= collection data: S> Dade= adults collected from leaves of 25 Mangifera indica (mango) plants, 20% infestation, in nursery at Miami by R. Larkin, March 29, 1979, determined by A. Hamon (A. Hamon); 2 adults collected on Ixora sp. in yard of apartment building at Miami Springs, September 26, by J. Torres, determined by J. Torres and R.P. Higgins, confirmed by S. Nakahara (J. Torres). Surveys underway. (A. Hamon). General distribution includes Puerto Rico, Central America, South America, Africa, Asia--Pakistan east through Indonesia and north into China and Japan, and Australia. This polyphagous scale recorded as important on Anacardium occidentale (cashew), Citrus, and Theobroma cacao (cacao). Some other hosts are Annona, Cocos nucifera (coconut), Coffea arabica (coffee), Ficus, Nerium, Persea, and Psidium. Infests leaves on upper surfaces along midveins and on under surfaces, and fruits. (S. Nakahara).

SMALL FRUITS

INSECTS

A LEAFHOPPER (Erythroneura comes) - NEW MEXICO - District> County= status week ending September 28: SE> Chaves= controls applied in 1 commercial vineyard in Dexter area. (G.L. Nielsen).

FOREST AND SHADE TREES

DISEASES

DUTCH ELM DISEASE (Ceratocystis ulmi) - COLORADO - Area> positive identifications: Statewide> 1,330 January 1 to August 24 compared with 1,566 for all of 1978. (C.E. Swift).

INSECTS

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - MISSISSIPPI - District> County= status on pines: C> Oktibbeha= survey flights yielded 178. Flights continued last 2 weeks of September. (R. Anderson).

AN OLETHREUTID MOTH (Petrova metallica) - NORTH DAKOTA - New county records. District> County= collection data from Pinus ponderosa (ponderosa pine) in sticky pheromone traps: EC> Cass= north of Kindred, May 23 to June 6, 1978, SE> Sargent= southeast of Brampton, May 23 to June 6, and NE> Pembina= collected north of Mountain, June 1-15, all collected by C.G. Scholl, and determined by M.E. Dix. (C.G. Scholl).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= average per head in small beef herd: C> Alachua= 320 September 30. (D. Boyd). WISCONSIN - District> County= adults per side on animals: SC> Rock= 5. (O.L. Lovett).

STABLE FLY (Stomoxys calcitrans) - WISCONSIN - District> County= adults per side on animals: SC> Rock= 4. (O.L. Lovett).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - KANSAS - District> County= status: SC> Kiowa, Pratt, and Comanche= damage usually light to wheat field margins, Kiowa= 3-4 m wheat field margin loss not uncommon, in 1 field bordered by stubble fields on 2 sides and weedy roadside on another, 8 m of margin eaten to ground level by September 25, increased to 18 m by October 1, dry weather in area resulted in very slow growth and aggravated situation, Comanche= 5 m of wheat [1 tiller] field margin eaten to ground level by September 25 (G.A. Salsbury), NW> wheat [1-3 tiller] growth adequate and little or no margin damage in several counties, seedling alfalfa fields in area usually showed little margin plant loss, and NC> Rooks= margin loss averaged about 5 m of stand in seedling alfalfa field (K.O. Bell, Jr.). MINNESOTA - District> status week ending September 28: C and SC> 30% Melanoplus differentialis, 60% Melanoplus femurrubrum, and 10% Melanoplus bivittatus in 20 alfalfa fields and adults averaged less than 1 per 0.8 sq m in fields and up to 8 in field margins. (D.D. Sreenivasam).

GYPSY MOTH (Lymantria dispar) - CALIFORNIA - District> County= adults in gypsy moth trap on oak: Central Coast> Santa Clara= 1 at San Jose, about 10 to 11 km south of quarantine area. Collected by M.A. Beavers, October 2, 1979, and determined by R. Somerby. (C.S. Papp).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= adults per pheromone trap per day: C> Maricopa= 1-15. (J. Childers et al.).

SCREWWORM (Cochliomyia hominivorax) - Total of 7 cases reported from continennental United States September 9-22 as follows: Texas 5, New Mexico 1, Arizona 1. Total of 139 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 524 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 113,392,300 as follows: Texas 61,374,500; New Mexico 11,746,000; Arizona 39,191,800; California 1,080,000. Total of 594,344,524 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

DETECTION

NEW CONTINENTAL UNITED STATES RECORD

INSECTS

A DIASPIDID SCALE (*Pseudaonidia trilobitiformis* (Green)) - FLORIDA - Dade County. (p. 750).

NEW COUNTY RECORDS

INSECTS

AN OLETHREUTID MOTH (*Petrova metallica*) - NORTH DAKOTA - Pembina, Cass, and Sargent. (p. 750).

CORRECTIONS

CPPR 4(37):733 - "GRASSHOPPERS - NEVADA - ...." should read "*Melanoplus sanguinipes* adults ...." (R.C. Bechtel).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (MM)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Paroronta diffusa (wheat head armyworm)	Pelltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																							
Mesa 10/1-7			BL	44					7	17						1		14	5	3405		138	115	
CALIFORNIA																							
Bellota 9/30			BL	3				6		3								1	18	2239			8	
Manteca 9/30	16-34		BL					35		5									20	560			9	
FLORIDA																							
Gainesville 9/27-10/3			BL					13													5			
KANSAS																							
Haviland 9/26, 10/3			BL			314											0				178			
Hays 9/21, 25, 28, 10/2			BL			135											0				0			
MONTANA																							
Bozeman 9/21-27			BL	5		4	1												48				1	
WEST VIRGINIA (County)																							
Monroe 10/1			BL	2						5									6					
Putnam 9/28-30			BL	2						4									2					
WISCONSIN																							
Ashford 9/25-30			BL							0							2		8					
Herman 9/18-24			BL							0							4		10					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Diaprepes abbreviatus (Linnaeus) West Indian sugarcane root borer Det. E. Feliu	adult	on leaves of Ficus plants from cargo	Puerto Rico	San Juan	WI
Homoeosoma sp. a pyralid moth Det. D.M. Weisman	larval	in seed pod of dried flowers from cargo	India	New Orleans	LA
Ips sexdentatus (Boerner) a scolytid beetle Det. W.D. McLellan	adult	in dunnage	West Germany	Catoosa	OK
Rhagoletis cerasi (Linnaeus) European cherry fruit fly Det. V.L. Blackburn	larval	in Prunus fruit from baggage	Switzerland	Boston	MA
Saperda carcharias (Linnaeus) a cerambycid beetle Det. W.C. McLellan	larval	in wood crates of tile	Italy	New Orleans	LA
Tetramesa sp. a eurytomid Det. E.E. Grissell	adult	in stems of Ampelodesmos grass from cargo	Italy	New Orleans	LA
Trogoderma granarium Everts khapra beetle Det. V.L. Blackburn	larval adult	on seeds of Pistacia from baggage	Iran	Bangor	CA
Vinsonia stellifera (Westwood) star scale Det. R.P. Higgins	adult	on leaves of Chamaedorea from cargo	Guatemala	Miami	FL

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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Animal and Plant Health Inspection Service
Hyattsville, Maryland 20782

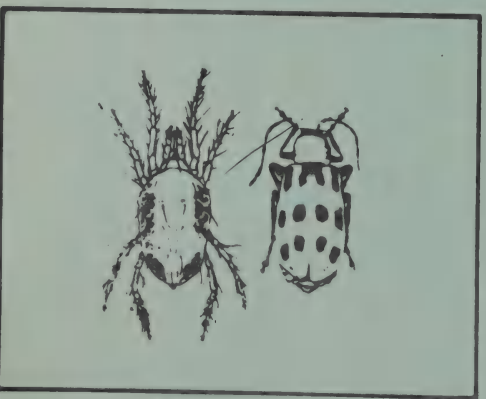
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Cooperative PLANT PEST REPORT

U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

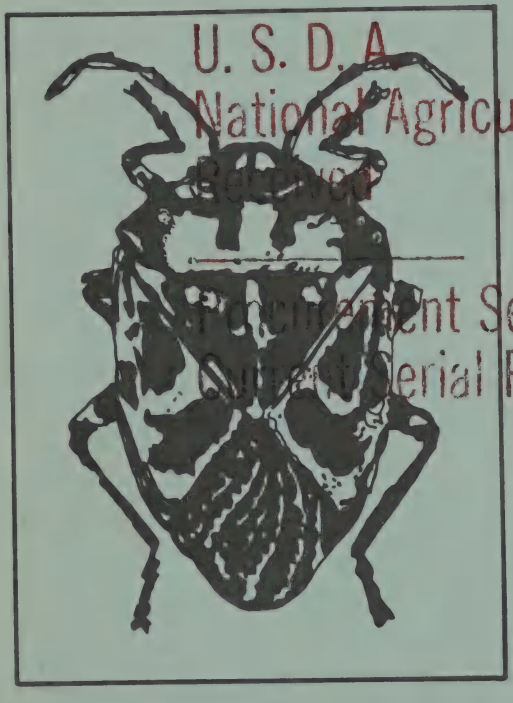
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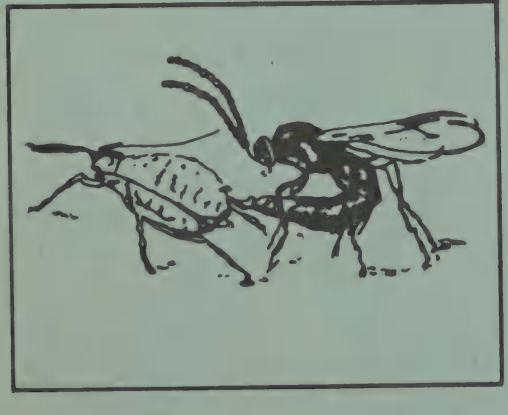
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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

Fall EUROPEAN CORN BORER numbers and infestations on corn in Delaware much lighter than in previous years. (p. 758).

APPLE BLOTCH on apples in southwestern area of Oklahoma. (p. 761).

GRASSHOPPER damage to wheat margins in Panhandle area of Oklahoma. (p. 762).

Detection

New county records on page 763.

New host of PINEWOOD NEMATODE for Missouri. (p. 761).

Some First Occurrences of the Season

ARMY CUTWORM adults and TOMATO RIPE ROT in Oklahoma.

Reports in this issue are for the week ending October 12 unless otherwise indicated.

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DISEASES

SOUTHERN LEAF BLIGHT (Cochliobolus (Bipolaris) heterostrophus) - OHIO - District> County= prevalence/severity of Bipolaris maydis stage on corn [all kernels dented] leaves in 1 commercial field each, week ending September 21: SW> Preble= 90%/trace to 10%. (R. Hite).

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus (Bipolaris) carbonum) - OHIO - District> County= prevalence/severity of Bipolaris ziecola stage on corn [all kernels dented] leaves in 1 commercial field each, week ending September 21: WC> Logan= 90%/trace. (R. Hite).

COMMON SMUT (Ustilago maydis) - OHIO - District> County= prevalence on corn [all kernels dented unless stated otherwise] stalks and ears in 1 commercial field each, week ending September 21: NW> Hancock= 3% [dent], Paulding= 2%, Williams= 2%, WC> Logan= 2%, and Mercer= 10%. (R. Hite).

COMMON MAIZE RUST (Puccinia sorghi) - OHIO - District> County= prevalence/severity on corn [all kernels dented] leaves in 1 commercial field each, week ending September 21: WC> Hardin= trace/trace, Logan= 70%/5%, Mercer= 5%/trace to 1%, and NW> Paulding= trace/trace. (R. Hite).

FUSARIUM KERNEL ROT (Gibberella (Fusarium) moniliforme) - OHIO - District> County= prevalence on corn [all kernels dented unless stated otherwise] kernels in 1 commercial field each, week ending September 21: NW> Hancock= 100% [dent], Henry= 100%, Paulding= 80%, and Williams= 90%. Most disease associated with severe bird and/or larval damage to ear tips. (R. Hite).

ANTHRACNOSE STALK ROT (Colletotrichum graminicola) - OHIO - District> County= prevalence on corn [all kernels dented] stalks week ending September 21: WC> Darke= 7% in 1 commercial field. (R. Hite).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - OHIO - District> County= prevalence/severity on corn [all kernels dented unless stated otherwise] leaves in number of commercial fields (f) or monitoring plots (m) week ending September 21: WC> Darke= 100%/75% in 1f, Hardin= 100%/50-60% [dent] in 1f, Logan= 100%/75-80% in 2f, Logan= 100%/15-20% in 1f, Mercer= 100%/10-15% in 2f, NW> Hancock= 100%/15-50% [dent] in 1f, Henry= 100%/trace to 5% in 1f, Van Wert= 100%/5-10% in 1f, and Williams= 100%/trace to 5% in 1f. (R. Hite).

FUSARIUM HEAD BLIGHT (Gibberella (Fusarium) moniliforme) - OKLAHOMA - District> County= status on sorghum October 3: EC> Muskogee and Okmulgee= this stalk and root rot increased in importance, lodging 90-95% in some fields. (K.E. Conway).

RED EAR ROT (Gibberella (Fusarium) roseum f.sp. cerealis) - OHIO - District> County= prevalence on corn [all kernels dented] ears in 1 commercial field each, week ending September 21: WC> Darke= trace, Hardin= 90%, NW> Henry= 2%, Paulding= 3%, and Van Wert= 3%. (R. Hite).

GIBBERELLA STALK ROT (Gibberella (Fusarium) roseum f.sp. cerealis) - OHIO - District> County= prevalence on corn [all kernels dented] stalks week ending September 21: WC> Mercer= 7% and 11% in 2 commercial fields. (R. Hite).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - DELAWARE - Average of 154 per 100 corn plants much lighter compared with 569 (second highest recorded) for 1978. Only periods of populations this light occurred before 1953 and in 1962-1964 following severe disease epidemic by Nosema pyraustae (corn borer protozoan). Lydella thompsoni (a tachinid fly) recovered from 1978 overwintering borers and some pupae and pupal cases of possibly this tachinid parasite recovered this fall. Fall abundance survey in corn (C.E. Mason, P.P. Burbutis):

District> County	Larvae per 100 plants		Plants infested (%)	
	1978	1979	1978	1979
N> New Castle	522	115	81	65
C> Kent	650	74	90	80
S> Sussex	536	272	98	88
Average	569	154	90	78

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status on sorghum: C> Alachua= larvae not yet economic, light populations infested 64.7 ha of young, late-planted sorghum in northwestern area. (R.B. Baker).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - IDAHO - New county record. District> County= collection data from corn: E> Bingham= adults actively feeding near Aberdeen, September 26, 1979, collected by L.E. Sandvol and H.W. Homan, determined by W.F. Barr. (H.W. Homan).

SORGHUM MIDGE (Contarinia sorghicola) - FLORIDA - District> County= status on sorghum September 28 to October 4: NW> Jackson= mostly egg-laying activity at Greenwood; currently: Cool weather may delay hatch, larvae expected by week of October 15 at subeconomic levels. (W.B. Tappan).

SMALL GRAINS

INSECTS

ARMY CUTWORM (Euxoa auxiliaris) - OKLAHOMA - First adults of season. District> County= adults September 29-30: C> Payne= 7 in light trap. (D.C. Arnold).

GREENBUG (Schizaphis graminum) - OKLAHOMA - District> County= status week ending October 5: Panhandle> Texas= averaged less than 1 per 0.3 row m in wheat field but ranged up to 800 per plant on Johnsongrass on roadside along field. About 5% parasitized by Lysiphlebus testaceipes (an aphidiid wasp). (D.C. Arnold).

AN APHID (Rhopalosiphum padi) - OKLAHOMA - First of season. District> County= status on young wheat week ending October 5: C> McClain and WC> Roger Mills= occasional aphid noted. (D.C. Arnold).

BANKS GRASS MITE (Oligonychus pratensis) - OKLAHOMA - District> County= status week ending October 5: Panhandle> Texas= moved from maturing sorghum into young wheat in several areas. Plants dead, especially in margins in several fields. (D.C. Arnold).

TURF, PASTURES, RANGELAND

INSECTS

ARMYWORM (Pseudaletia unipuncta) - OKLAHOMA - Damage heavy to pasture grasses during late September in some areas of Kingfisher County. District> County=

status of armyworm on wheat week ending October 5: C> Kingfisher= light due to migration into fields, pupation, and predation. (D.C. Arnold).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= larvae on alfalfa week ending October 5: SE> Eddy= 2nd and 3rd instars 0-3 per 25 sweeps in Loving and Malaga areas (T. Riddle), southern Chaves and northern Eddy= 1-18 (with 0-3 adults) per 5 sweeps (L. Gholson), and northern Dona Ana= less than 1 per sweep in 11 fields (G. Nielsen).

ALFALFA CATERPILLAR (Colias eurytheme) - NEW MEXICO - District> County= larvae on alfalfa week ending October 5: SE> Eddy= 3-5 with maximum average of 25 per 25 sweeps in southern area (T. Riddle), southern Chaves and northern Eddy= 2-8 per 5 sweeps in 11 fields (L. Gholson), and northern Dona Ana= 2-3 per 25 sweeps in 17 fields (G. Nielsen).

BEET ARMYWORM (Spodoptera exigua) - NEW MEXICO - District> County= larvae on alfalfa week ending October 5: SE> southern Chaves and northern Eddy= 1-4 per 5 sweeps in 11 fields (L. Gholson) and northern Dona Ana= less than 1 per 10 sweeps in 17 fields, many small larvae. (G. Nielsen).

PEA APHID (Acyrthosiphon pisum) - NEW MEXICO - District> County= status on alfalfa week ending October 5: SE> southern Eddy= nymphs and adults 25-100 per 25 sweeps (T. Riddle), southern Chaves and northern Eddy= 10-60 per 5 sweeps in 11 fields (L. Gholson), and northern Dona Ana= increased in many fields, averaged 10-20 per sweep, nymphs and adults 70+ per sweep in 1 field, 17 fields surveyed. (G. Nielsen).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - KANSAS - New county record. District> County= collection data from alfalfa: NC> Washington= near Hanover, September 26, 1979. Collected and determined by B.D. Hilbert. (K.O. Bell, Jr.)

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - District> County= counts on alfalfa: SE> northern Dona Ana= became more widespread, populations increased past month in 7 of 17 fields, nymphs and adults 12 per sweep in 1 field. (G. Nielsen).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - NEW MEXICO - District> County= adults on alfalfa week ending October 5: SE> southern Chaves and northern Eddy= 3-11 per 5 sweeps in 11 fields (L. Gholson), northern Dona Ana= averaged 3 per sweep in 17 fields (G. Nielsen), and southern Eddy= 10-15 per 25 sweeps (T. Riddle).

SOYBEANS

INSECTS

MEXICAN BEAN BEETLE (Epilachna varivestis) - ALABAMA - Area> adult averages per 9.1 row m of soybeans [full maturity] and leaf loss in 1 site each: Coastal Plains> 2 and 50% due to maturity (T. Lemons), Wiregrass> 1 and normal maturity loss (Knox-Wilson), and Tennessee River> 1 and normal maturity loss (J.E. Gregory).

BEAN LEAF BEETLE (Cerotoma trifurcata) - ALABAMA - Area> adult range if stated (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Central Alabama> (67) [full seed] and 18% in 1s (W.N. Stephenson) and Tennessee River> bean leaf beetle 7-12 (9) [full maturity] and normal maturity loss in 3s (J.E. Gregory).

SOYBEAN LOOPER (Pseudoplusia includens) - MISSISSIPPI - Area> this species and CABBAGE LOOPER (Trichoplusia ni) on late soybeans: Statewide> increased in many areas, economic levels present with controls applied in some fields. (R. Anderson). ALABAMA - Area> larval instar range if stated (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Central Alabama> 2nd (6) [full seed] and 18% in 1s and Tennessee River> 3rd to 4th 5-11 (8) [full maturity] and normal maturity loss in 3s. (J.E. Gregory).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - FLORIDA - District> County= this species and SOYBEAN LOOPER (Pseudoplusia includens) on soybeans: C> Alachua, Levy, and NE> Columbia= counts moderate in some late-planted fields, treatments required. (R.B. Baker). ALABAMA - Area> larval range (average) per 9.1 row m of soybeans [host stage] and leaf loss in number of sites (s): Wiregrass> 8-10 (9) [full maturity] and normal maturity loss in 3s (Knox-Wilson) and Central Alabama> 30-35 (32.5) [full seed to full maturity] and 16-18% in 2s (W.N. Stephenson). MISSISSIPPI - Area> larvae on soybeans: Statewide> light counts. Nomuraea rileyi (an insect fungus) caused significant reduction. Defoliation light due to this insect. (R. Anderson).

SOUTHERN GREEN STINK BUG (Nezara viridula) - FLORIDA - District> County= mostly this species on soybeans: C> Alachua, Levy, and NE> Columbia= still present, treatments not required due to crop maturity (R.B. Baker), NW> northern Gadsden= still at threshold levels in some fields, treatments required (R.K. Sprenkel), Santa Rosa= scouting completed with about 80-85% soybeans (var. Centennial) matured, but still scattered problem on late-maturing soybeans, making up 15-20% of crop in Jay area (M.C. Donahoe).

STINK BUGS - MISSISSIPPI - Major insect at this time. Area> status of GREEN STINK BUG (Acrosternum hilare), BROWN STINK BUG (Euschistus servus), and SOUTHERN GREEN STINK BUG (Nezara viridula) on soybeans: Some areas> continued to increase, S> economic levels present, and statewide> heavier than in past years. (R. Anderson).

PEANUTS

DISEASES

PEANUT LEAF RUST (Puccinia arachidis) - OKLAHOMA - First of season on peanuts. District> County= status on peanuts October 10: C> Payne= reported on breeding line CS76 in research plots at Perkins (H.A. Melouk) and SW> Caddo= prevalence trace on Spanish 'Tam Nut' (K. Jackson).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - MISSISSIPPI - Adult counts moderate to heavy on cotton in "hill sections." Diapause applications should be utilized. (R. Anderson).

BOLLWORMS (Heliothis spp.) - MISSISSIPPI - Area> larvae on cotton: Statewide> decrease rapid as majority of cotton reached maturity. No economic levels. (R. Anderson).

POTATOES, TOMATOES, PEPPERS

DISEASES

TOMATO RIPE ROT (Colletotrichum phomoides) - OKLAHOMA - First fruit infection of season. District> County= status on tomatoes October 10: C> Payne= infected fruit. (W. Johnson).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - OKLAHOMA - District> County= status on late cabbage in test plots week ending October 5: NE> Tulsa= heavy infestation in Bixby area. (D.C. Arnold).

DECIDUOUS FRUITS AND NUTS

DISEASES

APPLE BLOTCH (Phyllosticta solitaria) - OKLAHOMA - District> County= status on apples October 10: SW> Jackson= infected all apples on some Golden Delicious trees, not so severe on Red Delicious trees. (K.E. Conway).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - MISSOURI - New host record for State. District> County= status on Pinus mugo (Swiss mountain pine): E> Franklin= taken at Krakow, October 2, 1979. Collected and determined by F. Rycyk. (A. Foudin).

DUTCH ELM DISEASE (Ceratocystis ulmi) - OKLAHOMA - District> County= status October 3: EC> Pittsburg= second confirmation on Ulmus americana (American elm). (K.E. Conway).

INSECTS

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - MISSISSIPPI - Area> status on pines: Statewide> continued to spread, caused extensive damage to forests. Salvage operations occurred in many areas. (R. Anderson).

ORANGESTRIPED OAKWORM (Anisota senatoria) - PENNSYLVANIA - District> County= larval damage to oaks, especially Quercus coccinea (scarlet oak): C> Juniata= 25% to 80.9 ha at Tuscarora, and to 80.9 ha at Turbett, September 28, SC> Perry= 20% to 40.5 ha in Saville Township, September 26, 100% to 20 ha in Penn Township, September 27 (L. McCreary et al.), and 10-30% defoliation on 20 ha on scarlet oak, Quercus rubra (northern red oak), and Juglans nigra (black walnut) in Penn Township, September 27 (P.A. Varndell).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= status on small beef herd: C> Alachua= averaged 98 per animal, counts down from 320 per animal previous week before several days of cold weather affected count; counts should increase with warmer weather. (D. Boyd).

MOSQUITOES - NEW HAMPSHIRE - Cool, wet weather continued to produce annoying numbers of floodwater mosquitoes past usual time when species no longer problem. County= status: Rockingham and Strafford= Aedes vexans continued annoying on cloudy, warm evenings, fresh adults still in light traps as of October 4; S area> Aedes cinereus still common in woodland; Anopheles punctipennis below normal for time of year, possibly due to cool weather. (J.F. Burger).

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - OKLAHOMA - District> County= mostly Melanoplus sanguinipes week ending October 5: Panhandle> Texas= damage to wheat margins widespread. Damage extends out to 9.1 m in some fields. (D.C. Arnold).

GYPSY MOTH (Lymantria dispar) - PENNSYLVANIA - District> County= egg mass counts: EC> two-thirds of Pike and NE> southern corner of Wayne= about 100-500 per 0.4 ha on Quercus spp. (oaks) September 28 (G. Laudermilch), SC> Cumberland= about 66 on mixed oaks in Pine Grove Furnace State Park, Cooke Township, during September, and Adams= 8 on mixed oaks at Jacks Mountain, Hamiltonban Township, September 30 (P.A. Varndell).

PINK BOLLWORM (Pectinophora gossypiella) - TEXAS - District> County= adults on cotton October 3: Trans-Pecos> El Paso= decreased, 45 per trap. (B.A. Lee).

SCREWWORM (Cochliomyia hominivorax) - Total of 4 cases reported from continental United States, September 23-29 as follows: Arizona 3 and Nevada 1. Total of 169 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 184 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 52,819,000 as follows: Texas 25,655,000; New Mexico 5,808,000; Arizona 20,780,000; and California 576,000. Total of 314,904,000 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

HAWAII PEST REPORT

Man and Animals - WESTERN YELLOWJACKET (Vespula pensylvanica) adults well established and heavy from 1,982 to 2,438-m elevation at Polipoli (Kula Forest Reserve) on Maui, September 12. Adults foraged area of about 404.7 ha in mostly mamane Sophora, Styphelia, Vaccinium, and Coprosma habitat. Foraging especially heavy in area encompassing about 40.5 ha, adults made 24+ "passes" per minute 3.0 m in front of observer. Many female workers and few males observed. Activity diminished rapidly as clouds moved into area.

On Maui, a nest 17 x 20 cm along its horitzontal axis and 13 cm deep excavated from open area in dairy pasture of various grasses at Makawao 676.7 m elevation September 24, 1979. It was composed of 6 tiers containing worker and male cells. No queen cells produced. Total of 631 adults including 1 "mother" queen collected. Female to male ratio about 25 to 1. On Hawaii, various problems occurred in Kona area in early September. Adults invaded honey warehouse at Puuwaawaa at 676.7 m elevation. Total of 29 workers collected. At Hualalai, 8 workers collected near trash cans at ranch at 8,230 m elevation. According to ranch personnel, 4 large nests destroyed by burning, thus far. One nest reportedly 2 m long constructed in lava tube.

On Oahu, survey found no nests at Haleamano at 396 m elevation September 19 although 3 were disturbed during sugarcane harvesting in late August. However, foraging activity moderate to heavy alongside a gulch for about 0.8 km among Acacia, guava, and ohia trees. Three males collected. Also, on Oahu, male collected August 31 in Kuaokala Forest Reserve at 351 m elevation, along north end of Waianae Range. Male collected in 1978 on August 30, near there at Mt. Kaala 1,219 m elevation.

New Island Record. Worker collected at 1,128 m elevation in Molokai Forest Reserve, on Molokai, June 27, 1979, by F.R. Warshauer and S.L. Montgomery, and determined by S.Y. Higa.

With recent new location records and large increase of encounters in State within past few years, re-introduction may have occurred in recent past and activity is expected to increase sharply next summer. (L.M. Nakahara).

DETECTION

NEW COUNTY AND ISLAND RECORDS

INSECTS

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - KANSAS - Washington. (p. 759).

A DIASPIDID SCALE (Clavaspis herculeanus) - FLORIDA - District> County= collection data: C> Hillsborough= adults infested stems of Avicennia germinans (black mangrove) at park in Ruskin, September 10, 1979, by J. Felty and Z. Smith, and determined by A.B. Hamon. Plants in park for more than 1 year (Z. Smith).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - IDAHO - Bingham. (p. 758).

WESTERN YELLOWJACKET (Vespula pensylvanica) - HAWAII - Molokai. (p. 763).

CORRECTIONS

CPPR 4(27):521 - A PODAPOLIPOD MITE (Coccipolipus epilachnae) - WEST VIRGINIA - ... first release in State ... should read A PODAPOLIPID MITE ... first released in State, July 18, 1979....

CPPR 4(36):707 - COMMON SMUT (Ustilago maydis) - IOWA - .... should read COMMON MAIZE RUST (Puccinia sorghi) - IOWA - .... (D.J. Williams).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (MM)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Euxoa auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa webworm)	Loxostege rantalis (garden webworm)	Loxostege sticticalis (beet webworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																							
Mesa 10/1-7			BL	16					3	3							4	2	2132		43	13	
CALIFORNIA																							
Bellota 10/9		12-28	BL	1				3									1	33	408			1	
Manteca 10/9		12-28	BL	1				23		2							1	69	198			3	
FLORIDA																							
Gainesville 10/4-10			BL					6												2	1		
OKLAHOMA																							
Stillwater 10/6-11			BL	5		107	2			58								17		±66	1		
TEXAS																							
College Station 10/4-8			BL	1	0				1	11				0	0			7		2	0	0	
WEST VIRGINIA																							
Jefferson 9/27			BL							3								3					
Mason 9/21			BL	2						28													
WISCONSIN																							
Ashford 9/25-30			BL							0						2		8					
Herman 9/25-30			BL							0						4		10					

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Anastrepha ludens (Loew) Mexican fruit fly Det. J.W. Greer	larval	in grapefruit from baggage	Mexico	Dallas	AZ
Aspidiella hartii (Cockerell) a diaspidid scale Det. J. Dooley	adult	on roots of Zingiber from cargo	Fiji	Los Angeles	CA
Bruchus lentis Froelich a bruchid beetle Det. D.M. Odermatt	adult	in seeds of lentil from cargo	Iran	Kennedy Airport	PA
Isorhinus sp. a weevil Det. D.R. Whitehead	adult	on orchids from cargo	Belize	New Orleans	FL
Melanaspis tenax McKenzie a diaspidid scale Det. G.T. Muraoka	adult	on stems of Cattleya plants from baggage	Jamaica	Miami	FL
Orthotomicus laricis (Fabricius) a scolytid beetle Det. D.M. Anderson	adult	in wood crates of machinery	West Germany	Greenville	TN
Urocerus gigas gigas (Linnaeus) a siricid wasp Det. D.R. Smith	adult	in wood crates of expansion joints	United Kingdom	New Orleans	LA
Vinsonia stellifera (Westwood) star scale Det. E.M. Jones	adult	on leaves of Dieffenbachia plants from cargo	Costa Rica	Miami	NJ

This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

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Hyattsville, Maryland 20782

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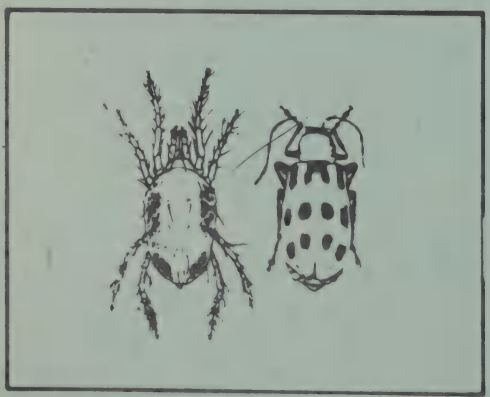
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U.S. DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

October 26, 1979
Vol. 4
No. 40

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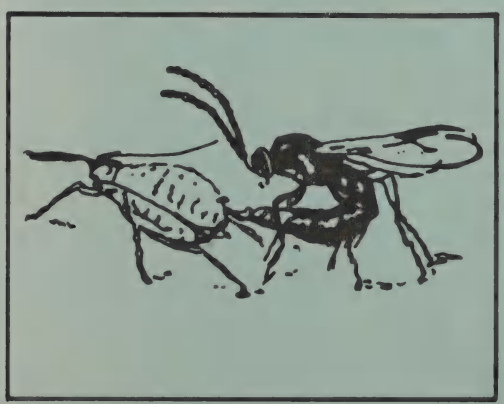
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METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

October 26, 1979 4(40):767-790

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

Survey completed for EUROPEAN CORN BORER (p. 775) and CORN LEAF APHID (p. 776-777) in Indiana.

GREENBUG and an APHID widespread on winter wheat in parts of western South Dakota. (p. 779).

SPOTTED ALFALFA APHID 4,000 per sweep of alfalfa in south-central area of Kansas. (p. 781).

Prediction

Potential for early BOLL WEEVIL infestations in South Carolina. (p. 784).

Detection

A CERAMBYCID BEETLE is new for North Dakota. (p. 768).

New county records on page 788.

Reports in this issue are for the week ending October 19 unless otherwise indicated.

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DISEASES

SOUTHERN LEAF BLIGHT (Cochliobolus (Bipolaris) heterostrophus) - ILLINOIS - District> County= prevalence/severity of Bipolaris maydis stage on corn [dent to all kernels dented] leaves in 1 commercial field each, week of August 27: C> McLean, Woodford, NW> Bureau, and Whiteside= trace/trace. (E.G. Jordan).

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus (Bipolaris) carbonum) - NEBRASKA - District> County= prevalence/severity of Bipolaris ziecola stage on corn [dough] week ending September 1: C> Howard= 5%/5% in 1 field. (S. Poe). ILLINOIS - District> County= prevalence/severity on corn [dent unless stated otherwise] leaves in 1 commercial field each, week of August 27: C> McLean= trace/trace [all kernels dented], Woodford= 50%/trace to 1%, Marshall= 10%/trace [dough], NW> Winnebago= 50%/trace to 1%, Stephenson= 70%/trace to 1%, Jo Daviess= 20%/trace, Carroll= 70%/trace to 2%, Whiteside= 90%/trace to 2% [all kernels dented], and Bureau= 50%/trace. (E.G. Jordan).

A STALK ROT (Fusarium sp.) - INDIANA - Mostly this species involved in 1 of 11 corn fields (50 stalks each field) in 11 counties, September 16-22. Bipolaris ziecola noted in infected stalks. (R.A. Schall).

District> County	Prevalence (%)/ stalks lodged (%)	Host stage
WC> Tippecanoe	not seen	maturity
NW> White	not seen	maturity
NW> Jasper	4/0	all dented to maturity
NW> La Porte	not seen	all kernels dented
NC> St. Joseph	not seen	maturity
NC> Marshall	not seen	maturity
NC> Fulton	not seen	maturity
NC> Carroll	not seen	maturity
C> Howard	not seen	all dented to maturity
C> Clinton	not seen	all kernels dented
C> Boone	not seen	maturity

COMMON SMUT (Ustilago maydis) - NEBRASKA - District> County= prevalence on corn [dough to beginning dent] stalks and ears week ending September 1: E> Nance= trace and trace, NE> Boone= 4% and 1%, Antelope= 3% and trace, Pierce= trace and 3%, Cedar= trace and 3%, Knox= 1% and 3%, N> Holt= 0% and trace, Wheeler= 0% and 0%, C> Greeley= 0% and 0%, and Howard= 0% and trace. (S. Poe). SOUTH DAKOTA - District> County= prevalence on commercial field corn [blister to milk] week of August 20: NE> Roberts, Clark, Day, EC> Brookings, Moody, Minnehaha, Davison, Sanborn, Miner, Kingsbury, SE> Union, Lincoln, Clay, Yankton, Bon Homme, and Hutchinson= trace. (V.L. Jons). NORTH DAKOTA - District> County= prevalence on commercial field corn [blister to milk] week of August 20: SE> Richland= trace. (V.L. Jons).

ILLINOIS - District> County= common smut prevalence on corn [dent unless stated otherwise] stalks in 1 commercial field each, week of August 27: C> McLean= 3% [all kernels dented], Woodford= 4%, Marshall= 2% [dough], NW> Winnebago= 5%, Stephenson= 7%, Jo Daviess= 6%, Carroll= 5%, Whiteside= 3% [all kernels dented], and Bureau= 5%. (E.G. Jordan).

INDIANA - Common smut prevalence on corn trace to 4%, severe enough to cause loss in 11 of 11 counties, September 16-22. (R. Schall).

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	trace	maturity
NW> White	trace	maturity
NW> Jasper	trace	all dented to maturity
NW> La Porte	4	all kernels dented
NC> St. Joseph	trace	maturity
NC> Marshall	trace	maturity
NC> Fulton	trace	maturity
NC> Carroll	trace	maturity
C> Howard	trace	all dented to maturity
C> Clinton	1	all kernels dented
C> Boone	1	maturity

COMMON MAIZE RUST (Puccinia sorghi) - NEBRASKA - District> County= prevalence/severity on corn [dough to beginning dent] week ending September 1: E> Nance= 0%/0%, NE> Boone= 0%/0%, Antelope= trace/trace, Pierce= 30%/5%, Cedar= 30%/5%, Knox= 0%/0%, N> Holt= 0%/0%, Wheeler= 0%/0%, C> Greeley= 85%/trace, and Howard= 40%/trace. (S. Poe). SOUTH DAKOTA - District> County= prevalence on commercial field corn [blister to milk] week of August 20: NE> Roberts, Clark, Day, EC> Brookings, Moody, Minnehaha, Davison, Sanborn, Miner, Kingsbury, SE> Union, Lincoln, Clay, Yankton, Bon Homme, and Hutchinson= trace. (V.L. Jons).

NORTH DAKOTA - District> County= common maize rust prevalence on commercial field corn [blister to milk] week of August 20: SE> Richland= trace. (V.L. Jons). ILLINOIS - District> County= prevalence/severity on corn [dent unless stated otherwise] leaves in 1 commercial field each, week of August 27: C> McLean= 100%/trace to 1% [all kernels dented], Woodford= 100%/trace, Marshall= 100%/trace [dough], NW> Winnebago= 100%/trace, Jo Daviess= 100%/trace to 1%, Carroll= 100%/trace, Whiteside= 100%/trace to 2% [all kernels dented], and Bureau= 100%/1%. (E.G. Jordan).

SOUTHERN RUST (Puccinia polysora) - ILLINOIS - District> County= prevalence/severity on corn [dent unless stated otherwise] leaves in 1 commercial field each, week of August 27: C> McLean= 100%/2% [all kernels dented], Woodford= 100%/trace to 1%, Marshall= trace/trace [dough], NW> Stephenson= trace/trace, Jo Daviess= trace/trace, Carroll= trace/trace, Whiteside= trace/trace [all kernels dented], and Bureau= trace/trace. (E.G. Jordan).

ANTHRACNOSE LEAF BLIGHT (Colletotrichum graminicola) - ILLINOIS - District> County= prevalence/severity on corn [dent unless stated otherwise] leaves in 1 commercial field each, week of August 27: C> McLean= 100%/1-3% [all kernels dented], Woodford= 100%/1%, Marshall= 100%/2% [dough], NW> Winnebago= trace/trace, Stephenson= trace/trace, Jo Daviess= trace/trace, Carroll= 70%/1%, Whiteside= 100%/trace to 2% [all kernels dented], and Bureau= 100%/1%. (E.G. Jordan).

CRAZY TOP (Sclerophthora macrospora) - SOUTH DAKOTA - District> County= status on corn week of August 20: NE> Roberts= in few fields near Sisseton. (V.L. Jons). NORTH DAKOTA - District> County= status on corn week of August 20: EC> Cass= widespread in sweet corn plot at Fargo. (V.L. Jons).

CORN EYESPOT (Kabatiella zeae) - ILLINOIS - District> County= prevalence/severity on corn [dent unless stated otherwise] leaves in 1 commercial field each, week of August 27: C> Woodford= trace/trace, Marshall= trace/trace [dough], NW> Winnebago= 20%/trace to 1%, Stephenson= 50%/1-2%, Jo Daviess= 100%/2-3%, Carroll= 50%/trace to 1%, and Whiteside= trace/trace [all kernels dented]. (E.G. Jordan).

CORN BROWN SPOT (Physoderma maydis) - NEBRASKA - District> County= prevalence on corn [dough to beginning dent] sheaths and leaves week ending September 1: E> Nance= 35% and 0%, NE> Boone= 30% and 12%, Antelope= 35% and 1%, Pierce= 50% and 6%, Cedar= 50% and 0%, Knox= 15% and 0%, N> Holt= 30% and 15%, Wheeler= 25% and 5%, C> Greeley= 50% and 0%, and Howard= 50% and 0%. (S. Poe).

EAR ROTS (Fusarium spp.) - INDIANA - Mostly this species (83%) with Penicillium sp., Nigrospora sp., Cladosporium sp., Alternaria sp., and unknowns caused ear rots, 50 ears each examined in 11 corn fields in 11 counties. Gibberella sp. observed in Central District, Clinton County, September 16-22. (R.A. Schall).

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	4	maturity
NW> White	6	maturity
NW> Jasper	22	all dented to maturity
NW> La Porte	36	all kernels dented
NC> St. Joseph	2	maturity
NC> Marshall	26	maturity
NC> Fulton	8	maturity
NC> Carroll	12	maturity
C> Howard	none seen	all dented to maturity
C> Clinton	6	all kernels dented
C> Boone	12	maturity

For DIPLODIA STALK ROT, STALK ROTS, and CHARCOAL ROT, respectively, see pages 772, 773, and 774.

HOLCUS SPOT (Pseudomonas syringae) - SOUTH DAKOTA - District> County= prevalence on commercial field corn [blister to milk] week of August 20: NE> Roberts, Clark, EC> Brookings, Moody, Minnehaha, Davison, Sanborn, Miner, Kingsbury, SE> Union, Lincoln, Clay, Yankton, Bon Homme, and Hutchinson= trace. (V.L. Jons). NORTH DAKOTA - District> County= prevalence on commercial field corn [blister to milk] week of August 20: SE> Richland= trace. (V.L. Jons).

MAIZE DWARF MOSAIC VIRUS - SOUTH DAKOTA - District> County= status on late-planted corn monitoring plots week of August 20: EC> Brookings at Brookings and SE> Clay= widespread. (V.L. Jons).

DIPLODIA STALK ROT (Diplodia maydis) - KANSAS - Annual fall corn stalk rot survey conducted from mid-September through mid-October (T. Sim, IV):

District> County	Prevalence (%)	Plants lodged (%)	Infected fields	Fields surveyed
NW> Cheyenne	-	-	0	5
NW> Rawlins	-	-	0	5
NW> Sheridan	-	-	0	5
NW> Sherman	-	-	0	5
NW> Thomas	-	-	0	5
WC> Gove	-	-	0	5
WC> Greeley	-	-	0	5
WC> Scott	-	-	0	5
WC> Wallace	-	-	0	5
WC> Wichita	-	-	0	4
SW> Finney	-	-	0	5
SW> Grant	-	-	0	5
SW> Gray	-	-	0	5
SW> Haskell	-	-	0	5
SW> Stanton	-	-	0	5
NC> Clay	-	-	0	5
NC> Cloud	-	-	0	5
NC> Jewell	-	-	0	5
NC> Republic	-	-	0	5
NC> Washington	-	-	0	5
SC> Edwards	-	-	0	5
SC> Kiowa	-	-	0	5
SC> Pawnee	-	-	0	5
SC> Pratt	-	-	0	5
SC> Stafford	-	-	0	5
NE> Atchison	4	0	1	5
NE> Brown	-	-	0	5
NE> Doniphan	-	-	0	5
NE> Jefferson	-	-	0	5
NE> Nemaha	-	-	0	5
EC> Douglas	-	-	0	5
EC> Franklin	-	-	0	5
EC> Lyon	1	0	2	5
EC> Miami	-	-	0	5
EC> Shawnee	-	-	0	5
SE> Allen	-	-	0	5
SE> Crawford	-	-	0	5
SE> Labette	4	-	1	5
SE> Montgomery	-	-	0	5
SE> Neosho	-	-	0	5
C> Barton	-	-	0	5
C> Dickinson	0	0	0	5
C> McPherson	-	-	0	5
C> Rice	-	-	0	5
C> Rush	-	-	0	5

STALK ROTS - KANSAS - Fusarium sp. and Gibberella sp. stalk rots in corn surveyed from mid-September through mid-October (T. Sim, IV):

District> County	Prevalence (%)	Plants lodged (%)	Infected fields	Fields surveyed
NW> Cheyenne	-	-	0	5
NW> Rawlins	-	-	0	5
NW> Sheridan	-	-	0	5
NW> Sherman	-	-	0	5
NW> Thomas	-	-	0	5
WC> Gove	-	-	0	5
WC> Greeley	-	-	0	5
WC> Scott	-	-	0	5
WC> Wallace	-	-	0	5
WC> Wichita	-	-	0	4
SW> Finney	-	-	0	5
SW> Grant	-	-	0	5
SW> Gray	4	0	2	5
SW> Haskell	-	-	0	5
SW> Stanton	-	-	0	5
NC> Clay	40	0	2	5
NC> Cloud	4	0	1	5
NC> Jewell	36	4	1	5
NC> Republic	-	-	0	5
NC> Washington	44	8	1	5
SC> Edwards	100	1	4	5
SC> Kiowa	73	0	5	5
SC> Pawnee	100	2	4	5
SC> Pratt	98	0	5	5
SC> Stafford	78	1	4	5
NE> Atchison	6	0	2	5
NE> Brown	-	-	0	5
NE> Doniphan	-	-	0	5
NE> Jefferson	-	-	0	5
NE> Nemaha	-	-	0	5
EC> Douglas	-	-	0	5
EC> Franklin	-	-	0	5
EC> Lyon	-	-	0	5
EC> Miami	-	-	0	5
EC> Shawnee	44	4	1	5
SE> Allen	32	0	2	5
SE> Crawford	1	0	2	5
SE> Labette	4	0	1	5
SE> Montgomery	-	-	0	5
SE> Neosho	1	0	2	5
C> Barton	100	1	0	5
C> Dickinson	-	-	0	5
C> McPherson	92	2	4	5
C> Rice	39	0	5	5
C> Rush	53	1	4	5

CHARCOAL ROT (Macrophomina phaseolina) - KANSAS - Annual fall cornstalk rot survey conducted from mid-September through mid-October. (T. Sim, IV).

District> County	Prevalence (%)	Plants lodged (%)	Infected fields	Fields surveyed
NW> Cheyenne	-	-	0	5
NW> Rawlins	8	0	1	5
NW> Sheridan	8	4	1	5
NW> Sherman	-	-	0	5
NW> Thomas	-	-	0	5
WC> Gove	-	-	0	5
WC> Greeley	-	-	0	5
WC> Scott	-	-	0	5
WC> Wallace	-	-	0	5
WC> Wichita	-	-	0	4
SW> Finney	-	-	0	5
SW> Grant	-	-	0	5
SW> Gray	-	-	0	5
SW> Haskell	-	-	0	5
SW> Stanton	-	-	0	5
NC> Clay	4	0	1	5
NC> Cloud	-	-	0	5
NC> Jewell	-	-	0	5
NC> Republic	-	-	0	5
NC> Washington	-	-	0	5
SC> Edwards	-	-	0	5
SC> Kiowa	-	-	0	5
SC> Pawnee	-	-	0	5
SC> Pratt	-	-	0	5
SC> Stafford	-	-	0	5
NE> Atchison	-	-	0	5
NE> Brown	-	-	0	5
NE> Doniphan	4	0	1	5
NE> Jefferson	-	-	0	5
NE> Nemaha	-	-	0	5
EC> Douglas	16	0	2	5
EC> Franklin	8	0	5	5
EC> Lyon	4	0	2	5
EC> Miami	-	-	4	5
EC> Shawnee	-	-	0	5
SE> Allen	24	0	3	5
SE> Crawford	4	0	1	5
SE> Labette	9	0	4	5
SE> Montgomery	24	0	5	5
SE> Neosho	11	0	3	5
C> Barton	-	-	0	5
C> Dickinson	25	1	4	5
C> McPherson	-	-	0	5
C> Rice	-	-	0	5
C> Rush	-	-	0	5

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - KANSAS - District> County= status on corn week ending October 12: NW> Thomas= infested 96% of plants and larvae 7.4 per plant in 1 field, October 4, rechecked after harvest October 11, ears along row middles bordering 200 stalks showed 17 ears on ground had ear shanks bored by this species and 6 ears with shanks apparently not damaged (K.O. Bell, Jr.); SW> Stevens and Morton= larvae commonly found in underground parts of stalks (M.L. Shuman); average percent sorghum [mature] plants infested in number of fields (f): NE> Atchison= 1-4% in 3f, Doniphan= 13-28% in 2f, Brown= 0-9% in 3f, and Jefferson= 6% in 1f (B.D. Hilbert). Currently: NW> Graham and Thomas at Colby experiment station= unusually heavy in corn (R.J. Sauer) and SC> Sedgwick= infested 36% of plants in peduncle area in late sorghum [hard dough] (K.O. Bell, Jr.).

INDIANA - European corn borer larvae averaged 127 per 100 cornstalks for State, due primarily to populations in northern one-third of State where populations in 2 districts exceeded those of 1978. District> County= larvae per 100 stalks week ending October 12: NW> Pulaski= 598, Starke= 595, Newton= 452 (1,000 in 1 field), Jasper= 402, and SW> Gibson and SC> Washington= 0 in 10 fields. Total of 65 ears lost to harvest due to activity by time of survey (0.87%). Fall corn survey (R.W. Meyer):

Area	Mean 4th and 5th instar larvae per 100 stalks	Stalks (%) infested by larvae
NNW	463.0	92.6
SSW	11.4	13.3
NNC	209.3	77.6
SSC	24.0	19.4
NNE	198.3	70.4
SSE	47.8	35.5
NW	92.4	57.4
SW	46.4	35.4
NC	168.1	75.0
SC	29.8	29.1
NE	176.4	71.8
SE	63.0	40.2
Average	127.5	51.5

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - KANSAS - Late season larval populations surveyed on corn in counties infested in recent years (5 fields randomly selected per county, 50 paces into field, 25 consecutive stalks per field). Counties surveyed among 5 highest corn-producing counties in crop reporting district. Data roughly indicate late season populations much lighter in most areas in 1979 than in previous 3 years. Survey September 28 through October 2 (G.A. Salsbury et al.):

District> County	Percent stalks infested				
	Average				Range
	1976	1977	1978	1979	1979
C> Barton	45	65	25	39	12-80
C> Ellis	-	-	6	-	-
C> McPherson	4	7	2	0	-
C> Rice	64	47	8	16	0-56

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District> County	Percent stalks infested Average 1976	1977	1978	1979	Range 1979
SC> Edwards	100	92	57	30	0-76
SC> Kiowa	86	85	68	25	0-100
SC> Pawnee	42	72	38	36	8-60
SC> Pratt	96	86	57	10	0-24
SC> Stafford	56	99	68	61	16-100
NW> Sheridan	0	0	1	0	-
WC> Greeley	9	0	18	0	-
WC> Gove	9	-	16	0	-
WC> Scott	2	2	8	0	-
WC> Wallace	0	trace	3	0	-
WC> Wichita	0	2	10	1	0-4
SW> Finney	4	10	51	4	0-20
SW> Grant	16	69	46	7	0-20
SW> Gray	7	21	26	13	4-28
SW> Haskell	30	18	46	1	0-4
SW> Stanton	36	13	82	3	0-8
C> Rush	54	82	26	10	4-12

CORN EARWORM (Heliothis zea) - KANSAS - District> County= status on sorghum [soft dough] week ending October 12: SC> Sedgwick= old damage heavy to grain in 100% of heads in 1 field, larvae still not present, larval infestations 5% and 10% in 2 other fields. (G.A. Salsbury). Current status on grain sorghum [hard dough]: SC> Sedgwick= larvae averaged 0.2 per head and infested 20% of heads in 1 late field. (K.O. Bell, Jr.).

A WHITEFRINGED BEETLE (Graphognathus fecundus) - SOUTH CAROLINA - New county record. District> County= collection data on corn: S> Berkeley= collected near Goose Creek, July 11, 1977, by J.A. Schoenholz, determined by R.F. Bollinger. (J.B. Kissam).

RICE WEEVIL (Sitophilus oryzae) - NORTH CAROLINA - Surveys indicate increasing infestation levels in unharvested corn left in field until moisture levels dropped below 16% by weight. Surveys in 1977, 1978, and 1979, in 20 randomly selected fields scattered across Coastal Plain revealed infestations in 60% of fields sampled. Grain storage results in storage loss depending on storage period and controls applied during bin-filling process. (T.N. Hunt).

CORN LEAF APHID (Rhopalosiphum maidis) - INDIANA - Annual corn insect damage survey conducted September 10 to October 4 (see table next page). Light infestations include plants with living aphids and/or exuviae anywhere on plant but probably causing no harm. Moderate infestations blacken portion of tassel. Severe infestations blacken most or all of tassel. Latter infestations probably interfere with pollination and early enough to possibly interfere with transport of nutrients. Figures reflect lateness of infestations, much corn tasseled before significant numbers seen, widespread prevalence of light infestations indicates favorable aphid conditions later in season. (R.W. Meyer).

Area>	Corn infestation Severe (%)	Moderate (%)	Light (%)	Total (%)
NNW>	2.24	4.80	56.32	63.36
NNC>	0.16	2.88	73.92	76.96
NNE>	0.32	1.44	74.08	75.84
SSW>	0.00	1.76	22.72	24.48
SSC>	0.00	3.04	24.32	27.36
SSE>	0.00	3.84	23.20	27.04
NW>	0.80	2.88	53.76	57.44
NC>	3.20	12.80	59.36	75.36
NE>	4.32	6.72	40.38	51.52
SW>	0.96	6.88	2.16	10.00
SC>	1.76	8.16	30.88	40.80
SE>	2.08	4.96	32.48	39.52
State mean	1.32	5.01	41.14	47.47

AN APHID (Rhopalosiphum padi) - IDAHO - District> County= status on silage corn October 10: SC> Twin Falls= 500-1,000 per plant on 4.0 ha near Kimberly. (R.L. Stoltz).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - KANSAS - See WHEAT STREAK MOSAIC VIRUS below.

OAT CROWN RUST (Puccinia coronata var. avenae) - KANSAS - District> County= prevalence on oats: SC> Kiowa= 100% in volunteer field. (T. Sim, IV).

WHEAT STREAK MOSAIC VIRUS - KANSAS - District> County= prevalence on volunteer wheat: C> Rush= 100% in 1 field, adjacent seeded wheat not affected and McPherson= this disease and WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) 100% in 1 field. (T. Sim, IV).

INSECTS

HESSIAN FLY (Mayetiola destructor) - KANSAS - District> County= percent infested wheat [2 tiller] week of October 11: SC> Stafford= 90% with 2-4 eggs per plant and 25% with eggs in second field, and Pratt= 5% in 1 field; current percent small grain plants infested in number of fields (f): SC> Kiowa= 10% in 1f, SC> Pratt= 0% in 1f, Reno= 0% in 1f, and C> McPherson= 0-1% in 3f. (G.A. Salsbury).

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - OKLAHOMA - District> County= status on wheat week ending October 12: C> McClain= light in 1 area. (D.C. Arnold).

GREENBUG (Schizaphis graminum) - OKLAHOMA - District> County= range (average) per 0.3 row m of wheat week ending October 12: SW> Jackson= 0-32 (less than 2) in 1 field. (D.C. Arnold). KANSAS - District> County= status on wheat [3 tiller] October 10: NE> Atchison= generally scarce, up to 18 per 0.3 row m, nearly all on plant parts below ground (B.D. Hilbert et al.). Currently, often no greenbugs found, occasionally light on wheat surveyed in various areas; heaviest in some fields in east-central area where up to 13 per 0.3 row m noted on wheat [3 tiller] in Anderson County and 15 per 0.3 row m on wheat [1 tiller]

field in Miami County; most greenbugs found below ground level and winged adults scarce in latter area (S.C. White), infestations always above ground and many winged aphids in south-central and western areas. (M.L. Shuman).

District> County	Average per plant	Average per 0.3 row m	Number of tillers	Number of fields
October 3-12 (G.A. Salsbury et al.):				
SC> Sedgwick	0 to trace	-	1	4
SC> Sumner	0	-	1-3	3
SC> Harper	trace	-	2	2
SC> Kiowa	trace	-	2	1
SC> Edwards	trace	-	1-2	2
SC> Pawnee	0 to trace	-	1-2	2
SC> Stafford	0 to trace	-	2	2
SC> Pratt	trace	-	2	1
NE> Doniphan	-	0	2	1
NE> Brown	-	0	2-3	2
NE> Atchison	-	2-18	3	2
NE> Pottawatomie	-	0	4	1
SE> Allen	2	-	2	1
WC> Lane	-	0	1	1
EC> Douglas	-	8	1	1
EC> Osage	-	trace	1	1
C> Rush	0 to trace	-	1-11	4
October 15-17 (S.C. White et al.):				
EC> Osage	-	6-9	1	2
EC> Coffey	-	0 to trace	1-2	2
EC> Anderson	-	13	3	1
EC> Franklin	-	6-8	2-3	2
EC> Miami	-	15	1	1
SE> Bourbon	-	3	1	1
SC> Sedgwick	-	2	2	1
SC> Kiowa	-	0	3	1
SC> Pratt	-	0	1	1
SC> Reno	-	0	2	1
SW> Grant	-	0-1	2-3	4
SW> Stevens	-	0-1	2-3	4
WC> Wichita	-	0	2-3	3
WC> Logan	-	0	2-3	3
WC> Wallace	-	0	2	3
WC> Greeley	-	0	2-3	3
NW> Thomas	-	0	2-3	3
NW> Rawlins	-	0	2-3	3
NW> Cheyenne	-	0	2-3	5
NW> Sherman	-	0	2-3	5
NE> Riley	-	trace	1	1
NC> Clay	-	0	1	1
NC> Cloud	-	0	1	1
NC> Republic	-	0	1	1
NC> Jewell	-	0	1	1
C> McPherson	-	trace	1-4	3

SOUTH DAKOTA - Area> greenbug and an APHID (Rhopalosiphum padi) on winter wheat, week ending October 12: W> infestations intensified, became widespread. Moisture stress magnified damage and complicated control in many fields. Some aphids fed below soil surface, control difficult. Greenbugs expected to persist all of October and most of November unless early freeze occurs with temperatures below -18°C for prolonged period. (D.D. Walgenbach).

AN APHID (Rhopalosiphum padi) - IDAHO - District> County= status on early planted small grain and volunteer plants October 8: SC> Twin Falls= colonized early plants near Twin Falls (R.L. Stoltz); current average on volunteer small grain plants October 12: SW> Canyon= 5 near Roswell, infested 54%. (D.S. Hart). OKLAHOMA - District> County= status on wheat week ending October 12: SW> Jackson and Greer= light in most fields on Johnsongrass. (D.C. Arnold).

KANSAS - Area> R. padi on wheat week ending October 12: W, SC, NE, and EC> light numbers commonly present and always found on plant parts below soil level. (G.A. Salsbury et al.). Most common aphid on wheat October 15-17, mostly on plant parts below ground level. (S.C. White et al.).

Survey data for R. padi, October 3-12:

District> County	Average per plant	Average per 0.3 row m	Number of tillers	Number of fields
SC> Sedgwick	0	-	1	4
SC> Sumner	0-1	-	1-3	3
SC> Harper	trace to 2	-	2	2
SC> Kiowa	0	-	2	1
SC> Edwards	0 to trace	-	1-2	2
SC> Pawnee	0 to trace	-	1-2	2
SC> Stafford	0 to trace	-	2	2
SC> Pratt	trace	-	2	1
NE> Doniphan	-	0	2	1
NE> Brown	-	0	2-3	2
NE> Atchison	-	2-18	3	2
NE> Pottawatomie	-	0	4	1
SE> Allen	3	-	2	1
WC> Lane	-	0	1	1
EC> Douglas	-	8	1	1
EC> Osage	-	trace	1	1
C> Rush	0 to trace	-	1-11	4

Survey data for R. padi, October 15-17:

District> County	Average per 0.3 row m	District> County	Average per 0.3 row m
EC> Osage	0-1	SC> Reno	0
EC> Coffey	trace	SW> Grant	0-24
EC> Anderson	60	SW> Stevens	0-12
EC> Franklin	30-47	WC> Logan	1-2
EC> Miami	95	WC> Wichita	10-12
SE> Bourbon	24	WC> Wallace	0-2
SC> Sedgwick	2	WC> Greeley	0-2
SC> Kiowa	0	NW> Thomas	0-2
SC> Pratt	0	NW> Rawlins	0-2

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District> County	Average per 0.3 row m	District> County	Average per 0.3 row m
NW> Cheyenne	0-24	NC> Clay	trace
NW> Sherman	0-20	NC> Cloud	trace
NE> Riley	trace	NC> Republic	trace
NC> Jewell	trace	C> McPherson	trace to 200

CORN LEAF APHID (Rhopalosiphum maidis) - IDAHO - District> County= status on fall-planted barley October 12: SW> Canyon= averaged 1 per plant near Wilder, infested 16%. (D.S. Hart).

GRASSHOPPERS - MISSOURI - District> County= Melanoplus spp. status on early planted wheat: NC> Randolph and Macon= damage light to moderate in small fields, about 50% of stand lost. Moisture shortage caused poor germination. Fields will probably be replanted. (R.E. Munson).

FORAGE LEGUMES

DISEASES

SUMMER BLACK STEM AND LEAF SPOT (Cercospora medicaginis) - KANSAS - Continued to affect alfalfa in most parts of State. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	Host height (cm)
EC> Wabaunsee	trace to 10	light	30-38
EC> Coffey	100	light	20
EC> Chase	100	moderate	43
SE> Bourbon	100	light	20
SW> Finney	100	light	46

ALFALFA RUST (Uromyces striatus) - KANSAS - Currently most widespread disease on alfalfa, asterisk (*) indicates defoliation (T. Sim, IV):

District> County	Prevalence (%)	Severity (%)	Host height (cm)
SC> Sedgwick	100	severe *	15 [seedling]
SC> Reno	100	severe	-
SC> Harvey	100	moderate	8 [seedling]
EC> Wabaunsee	30-100	light	30-38
EC> Osage	100	moderate	51
EC> Morris	100	severe *	25
EC> Chase	100	moderate	43
SW> Finney	100	light	46
C> McPherson	100	severe	-
C> Marion	20-100	moderate	8 [seedling]

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= status on alfalfa week ending October 12: NE> De Baca= populations generally very light in fields in Fort Sumner area (T. Riddle) and SE> Otero= larvae 1-3 and adults 0-2 per 25 sweeps in 5 fields in Tularosa area (G. Nielsen). KANSAS - District> County= adults per 100 sweeps of alfalfa [10-51 cm tall]: EC> Osage, Coffey, Anderson, Franklin, Miami, Morris, Chase, SC> Pawnee, SE> Allen, and

Bourbon= none in 11 fields. (S.C. White et al.). NEBRASKA - District> County= counts of alfalfa weevil per 100 sweeps of alfalfa in number of fields (f): SE> Otoe= none in 13f, September 19 (Manglitz, Stevens) and C> Dawson= larvae 2 and adults 2 in 16f, September 25 (Manglitz). MISSOURI - District> County= adults per 10 sweeps of alfalfa: NC> Chariton= moderate to heavy, 9-23, in 2 fields. (R.E. Munson).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - District> County= counts per 100 sweeps of alfalfa: C> Pinal= larvae 4-109 and adults 4 and Maricopa= adults 20. (L. Blackledge et al.). NEW MEXICO - District> County= larvae per 25 sweeps of alfalfa week ending October 12: NE> De Baca= 3-5. (T. Riddle).

BEET ARMYWORM (Spodoptera exigua) - NEVADA - District> County= larval status on alfalfa [seedling] week ending September 28: W> Churchill= 6-12 per 0.09 sq m caused heavy damage to 19 ha at Fallon. (G. Wheeler). ARIZONA - District> County= counts per 100 sweeps of alfalfa week ending October 12: C> Pinal= larvae 16-38, Maricopa= adults 20, and SW> Yuma= larvae 1-110. (T. Brooks et al.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - District> County= counts per 25 sweeps of alfalfa week ending October 12: SE> Otero= very light, 2-30, in 5 fields in Tularosa area. (G. Nielsen). OKLAHOMA - District> County= counts per 10 sweeps of alfalfa week ending October 12: SW> Jackson= 0-60. (D.C. Arnold). KANSAS - District> County= status week ending October 12: SC> Sedgwick= averaged about 4,000 per sweep in 15-cm alfalfa [seedling] at 1 location, leaf shedding noticeable, and averaged 0-3 per plant in 5 to 10-cm alfalfa [seedling] in 3 other fields, Sedgwick and SE> Butler= averaged about 10 per sweep in established alfalfa in 4 fields (G.A. Salsbury), and Neosho= averaged 40 per sweep in established alfalfa (G.E. Lippert).

PEA APHID (Acyrthosiphon pisum) - NEW MEXICO - District> County= counts per 25 sweeps of alfalfa week ending October 12: SE> Otero= light, 12-100+, in 5 fields in Tularosa area. (G. Nielsen). Current nymphs and adults per 25 sweeps of alfalfa: NW> Bernalillo= light, averaged 30-50 in fields. (C. Heninger).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa week ending October 12: C> Pinal= 356, Maricopa= 150, and SW> Yuma= 6-400 (T. Brooks et al.); currently: C> Pinal= 272-300, Maricopa= 10-68, and SW> Yuma= 20 (L. Blackledge et al.). NEW MEXICO - District> County= adults per sweep of alfalfa week ending October 12: SE> Otero= less than 1-10 in 5 fields in Tularosa area. (G. Nielsen).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending October 12: C> Pinal= 43 and 24-41, Maricopa= 10 and 23, and SW> Yuma= 100 and 200. (T. Brooks et al.).

SOYBEANS

DISEASES

SOYBEAN POD AND STEM BLIGHT (Diaporthe (Phomopsis) phaseolorum var. sojae) - ILLINOIS - District> County= prevalence on soybean [seed full size] pods in 1 commercial field each, week of August 27: C> McLean, Woodford, Marshall, NW> Winnebago, Stephenson, Whiteside, and Bureau= trace. (E.G. Jordan).

SOYBEAN STEM CANKER (Diaporthe phaseolorum var. caulivora) - ILLINOIS - District> County= prevalence on soybean [seed full size] stems in 1 commercial field each, week of August 27: C> McLean, Woodford, Marshall, NW> Winnebago, Stephenson, Whiteside, and Bureau= trace to 1%. (E.G. Jordan).

SOYBEAN DOWNY MILDEW (Peronospora manshurica) - ILLINOIS - District> County= prevalence/severity on soybean [seed development unless stated otherwise] leaves on cultivar (if stated) in number of commercial fields (f) or monitoring plots (m), August 6-16: E> Champaign= 100%/2% on Amsoy 71 in 1m, ESE> Fayette= 100%/4% on Clark in 1m, Marion= 100%/7% [pod 2 cm] in 1f, SW> St. Clair= 100%/5% on Elf in 1m, Clinton= 100%/6% in 1f, Monroe= 100%/1% in 1f, Randolph= 100%/2% in 1f, Jackson= 100%/4% on Woodworth in 1m, SE> Pope= 100%/10% on Elf in 1m, Saline= 100%/3% in 1f, C> Logan= 100%/1% on Clark 63 in 1m, W> McDonough= 100%/3% on Woodworth in 1m, NW> Putnam= 100%/1% [seed full size] on Corsoy in 1m, and NE> De Kalb= 100%/5% [pod 2 cm] on Williams in 1m. Prevalence/severity on soybean [seed full size] leaves in 1 commercial field each, week of August 27: C> McLean= 100%/1%, Woodford= 100%/trace, Marshall= 100%/2%, NW> Winnebago= 100%/3%, Stephenson= 100%/4%, Whiteside= 100%/2%, and Bureau= 100%/trace. (E.G. Jordan).

INDIANA - Soybean downy mildew on soybean seeds in 4 of 12 locations, September 16-22. (R.A. Schall).

District> County	Prevalence (%) on seed	Host stage
WC> Tippecanoe	not seen	pod yellowing
NW> White	not seen	pod yellowing
NW> Jasper	4	pod yellowing
NW> Porter	4	harvest maturity
NW> La Porte	not seen	pod yellowing
NC> St. Joseph	not seen	harvest maturity
NC> Marshall	not seen	seed full size
NC> Fulton	not seen	pod yellowing
NC> Carroll	6	pod yellowing
C> Howard	6	pod yellowing
C> Clinton	12	harvest maturity
C> Boone	not seen	harvest maturity

A POWDERY MILDEW (Microsphaera diffusa) - ILLINOIS - District> County= prevalence/severity on soybean [seed full size] leaves in 1 commercial field each, week of August 27: C> McLean= 20%/3-5%. (E.G. Jordan).

SOYBEAN BROWN SPOT (Septoria glycines) - ILLINOIS - District> County= prevalence/severity on soybean [seed development unless stated otherwise] leaves on cultivar (if stated) in number of commercial fields (f) or monitoring plots (m), August 6-16: E> Champaign= 100%/5% on Amsoy 71 in 1m, ESE> Fayette= 100%/4% on Beeson in 1m, Marion= 100%/5% [pod 2 cm] in 1f, SW> St. Clair= 100%/4% on Williams in 1m, Clinton= 100%/3% in 1f, Monroe= 100%/2% in 1f, Randolph= 100%/4% in 1f, Jackson= 100%/3% [seed full size] on Corsoy in 1m, SE> Pope= 100%/7% [seed full size] on Amsoy 71 in 1m, Saline= 100%/2% in 1f, C> Logan= 100%/7% on Elf in 1m, W> McDonough= 100%/9% [seed full size] on Wells in 1m, NW> Putnam= 100%/4% on Woodworth in 1m, and NE> De Kalb= 100%/5% on Amsoy in 1m. Prevalence/severity on soybean [seed full size] leaves in 1 commercial field each, week of August 27: C> McLean= 100%/8%, Woodford= 100%/5%, Marshall= 100%/4%, NW> Winnebago= 100%/5%, Stephenson= 100%/6%, Whiteside= 100%/5%, and Bureau= 100%/7%. (E.G. Jordan).

SOUTH DAKOTA - District> prevalence/severity of soybean brown spot on soybeans [pod 0.5 cm to beginning seed] week of August 20: NE> trace to 80%/trace to 1%, EC> trace to 100%/trace to 2%, and SE> trace to 100%/trace to 10%. (V.L. Jons). NORTH DAKOTA - District> prevalence/severity on soybeans [pod 2 cm] week of August 20: SE> trace to 80%/trace to 1%. (V.L. Jons).

PURPLE STAIN (Cercospora kikuchii) - INDIANA - Symptoms on soybean seed in 1 of 12 counties, September 16-22. (R.A. Schall).

District> County	Prevalence (%)	Host stage
WC> Tippecanoe	not seen	pod yellowing
NW> White	not seen	pod yellowing
NW> Jasper	not seen	pod yellowing
NW> Porter	not seen	harvest maturity
NW> La Porte	not seen	pod yellowing
NC> St. Joseph	not seen	harvest maturity
NC> Marshall	not seen	seed full size
NC> Fulton	not seen	pod yellowing
NC> Carroll	not seen	pod yellowing
C> Howard	not seen	pod yellowing
C> Clinton	not seen	harvest maturity
C> Boone	16	harvest maturity

SOYBEAN BACTERIAL BLIGHT (Pseudomonas glycinea) - NEBRASKA - District> County= prevalence/severity on soybeans [pod fill] week ending September 1: NE> Cedar= 30%/5% and C> Howard= 30%/5%. (S. Poe). SOUTH DAKOTA - District> prevalence/severity on soybeans [pod 0.5 cm to beginning seed] week of August 20: NE> 50-90%/trace to 2%, EC> 50-100%/trace to 3%, and SE> 80%/trace to 2%. (V.L. Jons). NORTH DAKOTA - District> prevalence/severity on soybeans [pod 2 cm] week of August 20: SE> 80-90%/trace to 3%. (V.L. Jons).

ILLINOIS - District> County= prevalence/severity of soybean bacterial blight on soybean [seed development unless stated otherwise] leaves on cultivar (if stated) in number of commercial fields (f) or monitoring plots (m), August 6-16: E> Champaign= 100%/2% on Cutler 71 in 1m, ESE> Fayette= 100%/4% [seed full size] on Corsoy in 1m, Marion= trace/trace [pod 2 cm] in 1f, SW> St. Clair= 100%/4% on Clark 63 in 1m, Clinton= trace/trace in 1f, Monroe= trace/trace in 1f, Randolph= trace/trace in 1f, Jackson= 100%/5% on Clark in 1m, SE> Pope= 100%/2% [seed full size] on Amsoy 71 in 1m, C> Logan= 100%/4% [seed full size] on Wells in 1m, W> McDonough= 100%/5% [seed full size] on Beeson in 1m, NW> Putnam= 100%/4% on Williams in 1m, and NE> De Kalb= 100%/3% [pod 2 cm] on Clark 63 in 1m. On soybean [seed full size] leaves in 1 commercial field each, week of August 27: C> McLean= 100%/2%, Woodford= 100%/3%, Marshall= 100%/1%, NW> Winnebago= 100%/5%, Stephenson= 100%/2%, and Bureau= 100%/1%. (E.G. Jordan).

BACTERIAL PUSTULE (Xanthomonas phaseoli var. sojense) - ILLINOIS - District> County= prevalence/severity on soybean [seed development unless stated otherwise] leaves on cultivar (if stated) in number of commercial fields (f) or monitoring plots (m), August 6-16: E> Champaign= 100%/2% on Clark in 1m, ESE> Fayette= 100%/5% [seed full size] on Corsoy in 1m, SW> St. Clair= 100%/4% [seed full size] on Wells in 1m, Monroe= trace/trace in 1f, Jackson= 100%/5% on Cutler 71 in 1m, SE> Pope= 100%/3% [seed full size] on Amsoy 71 in 1m, C> Logan= 100%/3% [seed full size] on Beeson in 1m, W> McDonough= 100%/2% [seed full size] on Amsoy in 1m, NW> Putnam= 100%/7% on Clark in 1m, and NE> De Kalb= 100%/1% on Amsoy 71 in 1m. On soybean [seed full size] leaves in 1 commercial

field each, week of August 27: C> McLean= bacterial pustule 100%/3%, Woodford= trace/trace, Marshall= 100%/3%, NW> Winnebago= 100%/7%, Stephenson= trace/trace, Whiteside= 100%/4%, and Bureau= 100%/2%. (E.G. Jordan).

SOYBEAN CYST NEMATODE (Heterodera glycines) - MINNESOTA - New county record. District> County= collection data from Glycine max (soybean): SC> Freeborn= collected near Hayward, July 10, 1979, by D.D. Sreenivasam, determined by R.M. Sushak. (D.D. Sreenivasam).

INSECTS

CORN EARWORM (Heliothis zea) - MARYLAND - Area> status on soybeans [pod]: Statewide> damage light, less than 1%. High levels of natural fungal diseases and closed fields prevented buildup. (J.H. Hellman).

GREEN STINK BUG (Acrosternum hilare) - OKLAHOMA - District> County= counts per soybean plant week ending October 12: EC> Muskogee= 4-5 in spots on late-planted soybeans not yet destroyed by frost. (D.C. Arnold).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - SOUTH CAROLINA - Area> adults on cotton week of October 11: Statewide> adults moderate to heavy in pheromone traps, many entered diapause, potential for early infestation in 1980. Pheromone trap catches September 22 to October 5 (D.R. Johnson et al.):

District> County	Range per trap	Mean per trap	Total taken
E> Marlboro	0-417	30	8,095
E> Marion	5-213	48	340
E> Florence	2-49	15	133
E> Dillon	0-224	25	2,962
E> Darlington	0-77	11	540

BOLLWORMS (Heliothis spp.) - ARIZONA - District> County= eggs and larvae per 100 sweeps of cotton: C> Maricopa= 4-16 and 8-16. (C. Chandler et al.).

MISCELLANEOUS FIELD CROPS

DISEASES

SUNFLOWER RUST (Puccinia helianthi) - SOUTH DAKOTA - District> prevalence/severity on sunflowers [flowering to ray petals dropping] week of August 20: NE and SE> trace to 90%/trace to 1%. (V.L. Jons).

A POWDERY MILDEW (Erysiphe cichoracearum) - SOUTH DAKOTA - District> County= prevalence/severity on sunflowers [ray petals dropping] week of August 20: SE> Clay= 100%/20-30% in 1 field. (V.L. Jons).

COLE CROPS

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - District> County= status on broccoli, cabbage, and cauliflower: C> Maricopa and SW> Yuma= moderate to heavy, chemical treatment ineffective. (F. Etchart).

GENERAL VEGETABLES

INSECTS

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - District> County= status on lettuce: C> Maricopa= infestation heavy, SW> Yuma= infested 10-22% of heads. (P. Gomez et al.).

NOCTUID MOTHS (Heliothis spp.) - ARIZONA - District> County= status on lettuce: SW> Yuma= moderate, infested 12% of heads, treatments applied. (P. Gomez et al.).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - INDIANA - District> County= counts in 5 pheromone or live-baited traps October 4-10: SW> Knox= 1 (T. Mouzin) and WC> Tippecanoe= 0; October 11-17: SW> Knox= 0 (T. Mouzin) and WC> Tippecanoe= 0 (R.W. Meyer).

ORIENTAL FRUIT MOTH (Grapholitha molesta) - INDIANA - District> County= counts in 5 pheromone or live-baited traps October 11-17: SW> Knox= 2 (T. Mouzin) and WC> Tippecanoe= no traps set (R.E. Meyer).

OBLIQUEBANDED LEAFROLLER (Choristoneura rosaceana) - IDAHO - District> County= larval status on apples October 9: SW> Payette= small larvae on freshly picked apples, 2-5% of fruit showing feeding damage and 60% of fruit in bins have larvae in them at Fruitland. (C.R. Baird).

APPLE MAGGOT (Rhagoletis pomonella) - INDIANA - District> County= counts in 5 pheromone or baited traps October 4-10: SW> Knox= 0 (T. Mouzin) and WC> Tippecanoe= no traps set. (R.W. Meyer).

SAN JOSE SCALE (Quadraspidiotus perniciosus) - OREGON - Area> status on pears week of October 8-12: Rogue River Valley> problem continued in some orchards. Crawlers continued to emerge, increasing normal population problem. (D.W. Berry).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - New county records. District> County= collection data: WC> Pope= light numbers collected on Pinus echinata (shortleaf pine) and Pinus taeda (loblolly pine) from residential area near Russellville, October 15, 1979, by D.A. Slack, determined by R.T. Robbins;

Crawford= pinewood nematode collected on Pinus sylvestris (Scotch pine) and Johnson= probably from loblolly pine, October 13, 1979, by R.T. Robbins, determined by R.T. Robbins. (M.A. Mayse).

CROWN GALL (Agrobacterium tumifaciens) - OKLAHOMA - District> County= status on willow: EC> Cherokee= severe on several hundred plants. (K.E. Conway).

PLANETREE LEAF SPOT (Mycosphaerella platanifolia) - OKLAHOMA - District> County= status of Cercospora platanicola stage on sycamore: EC> Cherokee= infection severe. (K.E. Conway).

INSECTS

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NEVADA - District> County= collection data from pheromone traps on utility poles: S> Nye= collected at Beatty, October 5, 1979, by D.F. Zoller, determined by R.C. Bechtel. (R.C. Bechtel).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - OKLAHOMA - District> County= counts per head of cattle week ending October 12: SC> Johnston, Atoka, and SE> Pushmataha= ranged 50-100 on cattle and EC> Pittsburg= averaged 25 on cows and 200 on bull. (D.C. Arnold). WISCONSIN - District> County= range per side of cattle: SC> Jefferson and Rock= 1-3. (O.L. Lovett).

MOSQUITOES - FLORIDA - Culex nigripalpus populations increased around State as rains stopped, this species breeds better in stagnant water. District> County= status: S> Highlands= 1 pool positive for ST. LOUIS ENCEPHALITIS VIRUS (J.A. Mulrennan, Jr.). SOUTH CAROLINA - District> County= Aedes sollicitans status: S> Charleston= great numbers prevalent along coast. (M. Askey).

EAR TICK (Otobius megnini) - OKLAHOMA - District> County= counts per ear week ending October 12: EC> Pittsburg= larvae and nymphs 5-10 on herd of cattle and C> Payne= averaged 4 on horse. (D.C. Arnold).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A TACHINID FLY (Compsilura concinnata) - VIRGINIA - Recovery of exotic parasites of Lymantria dispar (gypsy moth) successful on 2 occasions in September. Collected from native tussock moths in Loudoun County and in Independent City of Charlottesville. Earlier recoveries in Nelson and Greene Counties indicate fairly wide establishment in north-central area. (J.L. Garner).

FEDERAL AND STATE PROGRAMS

DISEASES

WHEAT STEM RUST (Puccinia graminis f.sp. tritici) - KANSAS - District> County= prevalence on volunteer wheat: C> McPherson= trace in 1 field near Little River. (T. Sim, IV).

INSECTS

GRASSHOPPERS - UTAH - Total estimated hectares infested as of October 11: 1,538 ha of cropland and 29,105 ha of rangeland. (T.D. Crowe).

OKLAHOMA - Area> grasshopper adult survey in late August and early September: Panhandle, NW, WC, C, SC, EC, SE, and EC> economic infestations of 8+ per 0.8 sq m on 460,938.5 ha of rangeland in 31 counties. Dominant species in one or more areas: Ageneotettix deorum, Aulocara elliotti, Drepanopterna femoratum, Amphitornus coloradus, Syrbula admirabilis, Phlibostroma quadrimaculatum, Metator pardalinus, Melanoplus differentialis, Melanoplus packardii, Melanoplus occidentalis, Melanoplus gladstoni, Melanoplus sanguinipes, Mermiria maculipennis, and Hadrotettix trifasciatus. Melanoplus bivittatus and Melanoplus differentialis infected by fungal disease in several areas in August, however, infections not widespread in any location and may have been too late to affect egg laying. Melanoplus bivittatus dominant in several areas in June and July but only light numbers by late August. Parasites and predators at most stops but not noticeably reducing populations. Melanoplus sanguinipes lighter than in 1978 in 3 Panhandle counties, but infestations at most stops in C> McClain, Grady, SC> Stephens, and Garvin Counties. (D.C. Arnold).

KANSAS - District> County= grasshopper status on wheat week ending October 12: WC> Logan= stand losses usually light in field margins, about 12 m of stand lost in 1 field (5% of field) and 11 m lost in second field near Russell Springs, most loss probably occurred earlier when wheat in 1 tiller stage, now 2-3 tiller stage resistant to stand loss. Melanoplus sanguinipes, Melanoplus femurrubrum, and Melanoplus differentialis major species remaining, migrated from adjacent weedy wheat stubble fields, up to 2 per 0.8 sq m remained. (K.O. Bell, Jr.).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= adults in pheromone traps week ending October 12: C> Maricopa= 0-39 per trap per day. (K. Toth et al.); currently: C> Maricopa= 1-47 and SW> Yuma= 3-161 per trap per night. (C. Mullis et al.). NEW MEXICO - District> County= larval status on cotton week ending October 12: SE> Eddy, Dona Ana, and SW> Luna= none in boll samples. (B. Campbell, T. Riddle). FLORIDA - New county record. District> County= collection data from pink bollworm trap: C> Pinellas= 4 adults collected on premises of commercial outlet at Tierra Verde, September 21, 1979, by L.L. Carpenter, determined by E.E. Bauman. (F.W. Mead).

RED IMPORTED FIRE ANT (Solenopsis invicta) - SOUTH CAROLINA - District> County= status: C> Richland and WC> Newberry= found near Cayce and Newberry, respectively. Newberry not considered 1 of generally infested counties. (C.S. Gorsuch et al.).

SCREWWORM (Cochliomyia hominivorax) - No cases reported from continental United States September 30 to October 6. Total of 145 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 365 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 51,975,200 as follows: Texas 24,174,000; New Mexico 5,474,000; Arizona 19,910,800; and California 2,416,400. Total of 380,759,163 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

General Vegetables - LEAFMINER FLIES (Liriomyza spp.) light to heavy on 0.4 ha of greenhouse tomatoes at Wood Valley (Ka'u), Hawaii Island. (S. Matayoshi). All stages of a LEAFHOPPER (Nesosydne ipomoeicola) heavy on planting of Ipomoea aquatica (swamp morning-glory) in garden at Wahiawa, Oahu, August 28, 1979, for new host record for State. Collected by C.Y. Kidani and L.M. Nakahara, determined by S.Y. Higa. (L.M. Nakahara).

Fruits and Ornamentals - New host record of parasite for State. An ICHNEUMONID WASP (Trathala flavoorbitalis) recovered from reared larvae of Amorbia emigratella (Mexican leafroller). Leafroller light on potted citrus in nursery at Olinda, Maui, September 13, 1979, by N. Miyahira and L.M. Nakahara. Determined by S.Y. Higa. (L.M. Nakahara).

DETECTION

NEW STATE RECORD

INSECTS

A CERAMBYCID BEETLE (Mecas pergrata) - NORTH DAKOTA - District> County= collection data from Chrysothamnus nauseosus (rubber rabbitbrush): WC> McKenzie= adult collected 8 km east of Roosevelt National Memorial Park on U.S. Highway 85, June 27, 1978, by L.A. Schutz and J.W. Smith, determined by R.H. Turnbow, Jr. (J.W. Smith).

NEW COUNTY RECORDS

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - Pope, Crawford, and Johnson (p. 785-786).

SOYBEAN CYST NEMATODE (Heterodera glycines) - MINNESOTA - Freeborn. (p. 784).

INSECTS

PINK BOLLWORM (Pectinophora gossypiella) - FLORIDA - Pinellas. (p. 787).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NEVADA - Nye. (p. 786).

A WHITEFRINGED BEETLE (Graphognathus fecundus) - SOUTH CAROLINA - Berkeley. (p. 776).

LIGHT TRAP COLLECTIONS

	Temperature °C.	Precipitation (MM)	Type of trap (BL = blacklight, I = incandescent, MV = mercury vapor, O = other)	Agrotis ipsilon (black cutworm)	Estigmene acrea (salt marsh caterpillar)	Furcula auxiliaris (army cutworm)	Faronta diffusa (wheat head armyworm)	Feltia subterranea (granulate cutworm)	Heliothis virescens (tobacco budworm)	H. zea (bollworm, corn earworm, tomato fruitworm)	Laspeyresia pomonella (codling moth)	Loxostege commixtalis (alfalfa weltworm)	Loxostege rantalis (beet webworm)	Loxostege sticticalis (garden weltworm)	Manduca quinquemaculata (tomato hornworm)	Manduca sexta (tobacco hornworm)	Ostrinia nubilalis (European corn borer)	Peridroma saucia (variegated cutworm)	Pseudaletia unipuncta (armyworm)	Spodoptera exigua (beet armyworm)	Spodoptera frugiperda (fall armyworm)	Spodoptera ornithogalli (yellowstriped armyworm)	Trichoplusia ni (cabbage looper)	Crops
ARIZONA																								
Mesa 10/11-17			BL	28					4	8							12	2	3440		21	17		
CALIFORNIA																								
Bellota 10/14			BL	14			6			2							2	266	471					
Manteca 10/14	14-26		BL				20			3							1	82	139					
FLORIDA																								
Gainesville 10/11-17			BL	1			22			3								4		3				
MONTANA																								
Bozeman 9/28 - 10/8			BL	6		3												15				2		
WISCONSIN																								
Mazomanie 9/27 - 10/12			BL	1						3						12	0	0						

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Coniella granati (Sacc.) Petr. & Syd. a fungus Det. F.G. Pollack	imperfect	on seeds of Punica granatum from cargo	Netherlands	Hoboken	NJ
Africaspis orchidarum (Ferris) a diaspidid scale Det. S. Nakahara	adult	on leaves of Vanda plants from baggage	Philippines	Honolulu	CA
Busseola fusca (Fuller) a noctuid moth Det. D.M. Weisman	larval	on corn from baggage	Africa (country ?)	Kennedy Airport	NY
Cnaphalocrocis medinalis (Guenee) a pyralid moth Det. G.K. Browne	adult	with aircraft	Asia (country ?)	Seattle	--
Ips sexdentatus (Boerner) a scolytid beetle Det. E.J. Ford, Jr.	adult	in dunnage	Italy	Baltimore	VA
Orchamoplatus mammaeferus (Q&B) a whitefly Det. J. Dooley	pupal	on leaves of Codiaeum from baggage	Tahiti	Los Angeles	CA
Pissodes sp. a weevil Det. R.F. Bollinger	pupal	in dunnage	West Germany	Charleston	--
Globodera rostochiensis (Woll.) Mulvey & Stone golden nematode Det. W.F. Friedman	cysts	with lily bulbs from cargo	Japan	New York	NY

This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

Cooperative Plant Pest Report supersedes *Cooperative Economic Insect Report*, which was discontinued with Volume 25, Numbers 49–52, 1975.

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New Pest Detection and Survey Staff
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Animal and Plant Health Inspection Service
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Federal Building #1
Hyattsville, Maryland 20782

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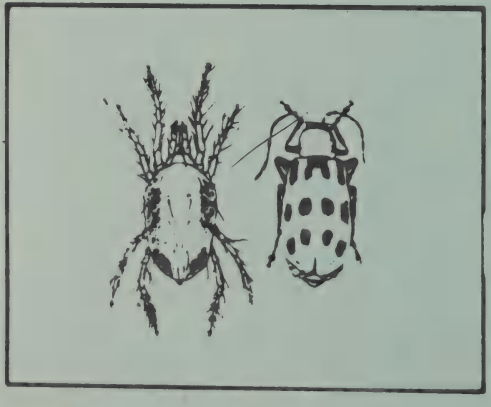
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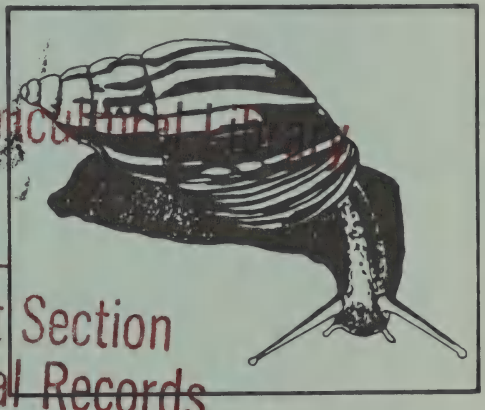
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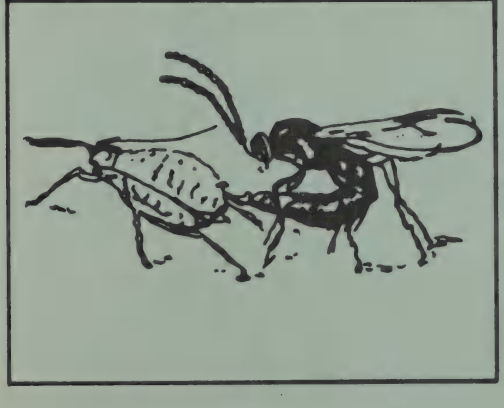
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METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

November 2, 1979 4(41):791-806

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

Results of corn disease survey in Wisconsin. (p. 793 and 795).

EUROPEAN CORN BORER larvae and infestations increased in western Kansas, particularly in northwestern and west-central districts. (p. 795).

Adult CORN ROOTWORM survey completed in Indiana. (p. 795-796).

BLUE MOLD serious on tobacco in Kentucky. (p. 800).

Prediction

SPOTTED ALFALFA APHID potential threat to nonresistant varieties of seedling alfalfa if uncontrolled by beneficials in southwestern New Mexico. (p. 799).

Detection

New State records include SOUTHERN LEAF RUST in Ohio (p. 794), a EULOPHID WASP in North Carolina (p. 802), and an ICHNEUMONID WASP in Maryland (p. 803).

New county records on pages 805-806.

One issue of the CPPR will be published each month for November, December, and January because of reduced pest activity.

Reports in this issue are for the week ending October 26 unless otherwise indicated.

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DISEASES

HELMINTHOSPORIUM LEAF SPOT (Cochliobolus (Bipolaris) carbonum) - WISCONSIN - Area> prevalence/severity of Bipolaris ziecola stage on corn in number of fields (f), 100 plants per field: SE> 0%/0% in 19f, SC> 14%/1% in 52f, SW> 8%/1% in 38f, EC> 2%/1% in 29f, C> 2%/1% in 21f, WC> 10%/1% in 28f, NE> no data/no data in 5f, NC> no data/no data in 6f, and NW> no data/no data in 9f; averaged 4%/1%. (O.L. Lovett).

NORTHERN LEAF BLIGHT (Setosphaeria (Exserohilum) turcica) - WISCONSIN - Area> prevalence/severity of imperfect stage on corn in number of fields (f), 100 plants per field: SE> 1%/1% in 19f, SC> 3%/1% in 52f, SW> 2%/1% in 38f, EC> 1%/1% in 29f, C> 1%/1% in 21f, WC> 3%/1% in 28f, NE> 2%/1% in 5f, NC> 81%/1% in 6f, and NW> 95%/1% in 9f; averaged 1%/1%. (O.L. Lovett).

COMMON SMUT (Ustilago maydis) - WISCONSIN - Area> prevalence/severity on corn in number of fields (f), 100 plants per field: SE> 3%/1% in 19f, SC> 3%/3% in 52f, SW> 3%/3% in 38f, EC> 5%/2% in 29f, C> 2%/2% in 21f, WC> 5%/7% in 28f, NE> 1%/1% in 5f, NC> 1%/1% in 6f, and NW> 3%/1% in 9f; averaged 3%/2%. (O.L. Lovett).

COMMON MAIZE RUST (Puccinia sorghi) - WISCONSIN - Area> prevalence/severity on corn in number of fields (f), 100 plants per field: SE> 73%/2% in 19f, SC> 60%/2% in 52f, SW> 87%/1% in 38f, EC> 51%/1% in 29f, C> 40%/1% in 21f, WC> 88%/2% in 28f, NE> 22%/1% in 5f, NC> 76%/1% in 6f, and NW> 68%/1% in 9f; averaged 66%/1%. (O.L. Lovett).

STALK ROTS (Gibberella (Fusarium) spp.) - NEBRASKA - Frequently associated with damage to corn due to EUROPEAN CORN BORER (Ostrinia nubilalis). Macroconidia and/or perithecia rarely in plants with stalk rot symptoms in most fields. District> County= status on corn: E> Sarpy, Cass, and SE> Saline= perithecia of Gibberella (Fusarium) roseum f.sp. cerealis on few plants. Survey of corn [full maturity] in commercial fields (S. Poe):

District> County	Prevalence (%)	Number of fields
SE> Clay	38-46	3
SE> Fillmore	40-54	3
SE> Saline	34-60	2
SE> Jefferson	44-65	3
SE> Gage	28-70	4
SE> Otoe	41-49	3
SE> Johnson	37-61	3
SE> Nemaha	17-57	3
E> Hamilton	30-45	2
E> Merrick	33-67	2
E> York	46-54	3
E> Seward	41-62	3
E> Lancaster	38-52	4
E> Cass	44-46	2
E> Sarpy	42-53	3
E> Saunders	27-44	3
E> Douglas	29-58	2

SOUTHERN LEAF RUST (Puccinia polysora) - OHIO - New State and county records. District> County= collection data from corn NW> Paulding= prevalence 100%/severity 5-10% [blister]: near Paulding in 1 commercial field, August 15, 1979; see table below for new county records; all collected and determined by R.E. Hite. No obvious explanation for sudden and widespread occurrence. Most areas unusually wet in July and August and plant maturity somewhat delayed. Temperatures somewhat below normal, rarely exceeding 32°C. Rust reportedly favored by high temperatures (27°C) and high relative humidities. First detection on August 15 in northwestern area would indicate infection as early as first week of August. Other fields in southern area may have been infected even earlier. (R.E. Hite).

District> County	Nearest city	Prevalence (%)	Severity (%)	Host stage	Number of commercial fields	Date
SW> Warren	South Lebanon	100	trace to 10	dent	1	Aug 28
SW> Butler	Hamilton	100	trace to 25	dent	1	Aug 29
SW> Preble	West Manchester	25	trace to 5	dent	3	Sep 20
SW> Clinton	Farmers Station	100	10-15	maturity	1	Oct 4
SE> Perry	Ziontown	100	trace to 50	dent	1	Sep 11
NC> Ashland	Nankin	35	trace to 5	dent	1	Sep 12
NC> Crawford	Brokensword	100	trace to 5	dent	1	Sep 12
NW> Hancock	Rawson	25	trace	dent	1	Sep 18
WC> Hardin	Foraker	10	trace to 2	dent	2	Sep 18
WC> Logan	Bellefontaine	5	trace	dent	1	Sep 18
WC> Darke	Brock	50	trace to 1	dent	1	Sep 20
WC> Mercer	Saint Henry	100	trace to 20	dent	2	Sep 20
NW> Henry	Napoleon	trace	trace	dent	1	Sep 19
NW> Williams	Pulaski	25	trace to 1	dent	2	Sep 19
NW> Wood	Hoytville	100	trace to 15*	dent		Sep 19
NW> Paulding	Haviland	100	trace to 25	dent	1	Sep 20
NW> Van Wert	Van Wert	5	1-2	dent	1	Sep 20
SC> Pike	Jasper	trace	trace	maturity	1	Oct 18
SC> Brown	Ripley	100	trace to 5	dent	1	Aug 29
SC> Scioto	Friendship	10	trace to 5	dent	1	Aug 30
C> Ross	Knockemstiff	trace	trace	dent	1	Aug 30
C> Licking	Kirkersville	20	trace to 5	dent	1	Sep 10
C> Knox	Mount Vernon	100	trace to 5	dent	1	Sep 11
C> Pickaway	Circleville	100	trace to 5	maturity	3	Oct 4

*On several hybrids and many experimental lines at NW Branch of Ohio Agricultural Research and Development Center.

CORN EYESPOT (Kabatiella zeae) - WISCONSIN - Prevalence and severity continued to increase in nearly all areas, doubled in each of past 2 years. (O.L. Lovett).

Area	Prevalence (%)	Severity (%)	Number of fields
SE	75	6	19
SC	68	2	52
SW	96	10	38
EC	43	1	29
C	30	1	21
WC	88	4	28
NE	2	1	5
NC	81	1	6
NW	95	1	9
Average	64	3	

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - KANSAS - Populations lighter on corn in eastern and north-central areas than in 1978, but heavier in western and particularly in northwestern areas. Five top corn-producing counties in each of 9 crop reporting districts (5 fields per county, 25 consecutive stalks per field, 50 paces into each field) checked for infestation, larvae counted in 5 consecutively infested stalks (less if fewer than 5 of 25 were infested) to estimate larvae per 100 stalks. Ears fallen to ground (or those that would fall when ears were lightly handled) checked for damage to ear shanks on 25 consecutive stalks. Those showing shank damage counted and served as basis for percent ears dropped. (K.O. Bell, Jr.).

	Larvae per 100 stalks			Percent stalks infested			Percent ears dropped 2/		
	Average		Range 1/	Average		Range 1/	Average		Range 1/
District	1978	1979	1979	1978	1979	1979	1978	1979	1979
NE	171	34	15-53	83	44	22-59	0.5	1.4	0-2.4
EC	213	69	32-105	87	59	31-78	0	0.2	0-0.8
SE 3/	-	72	20-126	-	50	42-63	-	0	-
NC	92	47	17-65	68	55	28-66	0.3	0.5	0.1.6
C	173	103	17-147	70	64	22-92	1.4	2.4	0-4.8
SC	184	140	100-193	83	79	74-87	2.6	3.2	1.6-7.2
NW	19	354	181-563	19	79	67-92	0	1.0	0-2.4
WC	39	212	92-325	30	65	49-86	0.5	0.5	0-0.8
SW	25	47	12-83	24	34	12-52	0.5	1.3	0-2.4

1/ Range among county averages.
2/ Ear drop due to shank infestations at time of survey.
3/ District not surveyed in 1978; much corn harvested early for silage due to drought.

CORN ROOTWORMS (Diabrotica spp.) - ILLINOIS - NORTHERN CORN ROOTWORM (D. longicornis) and WESTERN CORN ROOTWORM (D. virgifera) adult averages per corn plant from 10 randomly selected fields in each county for 1979 (K.D. Black):

District> County	Average per plant	District> County	Average per plant
NW> Bureau	2.10	E> Livingston	1.09
NW> Lee	1.19	E> Vermilion	0.45
NW> Mercer	4.02	WSW> Christian	0.35
NW> Ogle	1.02	WSW> Greene	0.77
NW> Stephenson	2.41	WSW> Macoupin	0.46
NW> Whiteside	1.83	WSW> Montgomery	0.98
NE> Boone	0.75	WSW> Morgan	0.07
NE> De Kalb	0.56	ESE> Clark	0.34
NE> La Salle	1.21	ESE> Jasper	0.22
W> Adams	0.61	ESE> Marion	0.15
W> Henderson	1.30	ESE> Shelby	0.36
W> Knox	1.17	SW> Randolph	0.04
W> McDonough	0.44	SW> St. Clair	0.05
W> Warren	2.09	SW> Union	0.03
C> Logan	1.56	SW> Washington	0.04
C> McLean	1.35	SE> Franklin	0.71
C> Peoria	1.10	SE> Gallatin	0.25
C> Woodford	3.14	SE> Wabash	0.16
E> Champaign	2.08	SE> Wayne	0.04
E> Iroquois	0.41	SE> White	0.06
E> Kankakee	0.74		

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - KANSAS - District> County= status on corn: C> McPherson= none in 2 fields October 16, 50 consecutive stalks checked at 50 paces into fields (G.A. Salsbury); SW> Morton= percent stalks infested in 3 harvested fields in southeastern area about 5 km north of southern State line were 12%, 44%, and 60%; similarly, for 3 fields in Stevens= in southwestern area were 8%, 28%, and 36%. Live larvae in all stalk bases with typical borer holes, 25 consecutive stalks checked 50 paces into field, October 10 (M.L. Shuman).

GREENBUG (Schizaphis graminum) - KANSAS - District> County= average per late sorghum plant [soft dough]: EC> Geary= 12 in 1 field; none winged. (K.O. Bell, Jr.).

SMALL GRAINS

DISEASES

WHEAT LEAF RUST (Puccinia recondita f.sp. tritici) - KANSAS - District> County= prevalence on wheat: NE> Doniphan= trace in 1 field. (K.O. Bell, Jr.).

WHEAT STREAK MOSAIC VIRUS - KANSAS - Continued to affect volunteer wheat in parts of south-central area. District> County= status on volunteer wheat: SC> Kiowa= prevalence 100% in field near Greensburg and in field northwest of Greensburg on northern county border and Reno= severely infected field near Yoder. (K.O. Bell, Jr.). See WHEAT CURL MITE (Eriophyes tulipae) on p. 797.

INSECTS

HESSIAN FLY (Mayetiola destructor) - KANSAS - District> County= status on wheat: SC> Stafford= unhatched eggs and larvae absent where eggs on 90% of plants October 11 (G.A. Salsbury), NE> Jackson and Jefferson= puparia trace on planted wheat, none in several other counties, NC> Mitchell= large larvae and

puparia on 8% of volunteer wheat [9 tiller] tillers in seedling alfalfa (K.O. Bell, Jr.), and SW> Finney= 6 of 15 Hessian fly puparia parasitized in northeastern area (D.E. Mock).

District> County	Percent tillers infested	Number of tillers	Number of fields
EC> Franklin	-	3	2
EC> Johnson	-	1	2
EC> Osage	-	1	1
EC> Douglas	0	4	2
NE> Jefferson	0 to trace	3-6	3
NE> Jackson	0 to trace	3-4	2
NC> Cloud	0	3	1
NC> Mitchell	0	2-4	3
NC> Osborne	0	3	1
C> Lincoln	0	2	1

WHEAT STEM MAGGOT (Meromyza americana) - KANSAS - District> County= status on volunteer wheat [9 tiller]: NC> Mitchell= large larvae infested 1% of plants in seedling alfalfa field. (K.O. Bell, Jr.).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - COLORADO - District> County= status on winter wheat: N> Larimer= adults fed and caused damage. (W.M. Hantsbarger).

GREENBUG (Schizaphis graminum) - COLORADO - District> County= status on winter wheat: N> Larimer and EC> Yuma= light scattered infestations, some damage. (W.M. Hantsbarger). OKLAHOMA - District> County= status on wheat: WC> Washita and SW> Caddo= up to 18 per small plant in spots in fields. (D.C. Arnold).

KANSAS - Greenbug still generally scarce on wheat. District> County= status on wheat [host stage]: EC> Franklin= heavy enough to require frequent checks of 2 fields [3 tiller], populations 25 and 44 per 0.3 row m (S.C. White), SC> Kiowa= significant flights detected (G.A. Salsbury), SW> Finney= none in Garden City (M.L. Shuman), winged adults trace (K.O. Bell, Jr.), NE> Jefferson and EC> Douglas= trace (B.D. Hilbert).

District> County	Number per 0.3 row m	Number of tillers	Number of fields
EC> Franklin	25-44	3	2
EC> Johnson	0	1	2
EC> Osage	0	1	1
EC> Douglas	7-12	4	2
NE> Jefferson	0-4	3-6	3
NE> Jackson	0-4	3-4	2
NC> Cloud	0	3	1
NC> Mitchell	0-0.3	2-4	3
NC> Osborne	2	3	1
C> Lincoln	0.1	2	1

AN APHID (Rhopalosiphum padi) - OKLAHOMA - District> County= status on wheat: WC> Washita and SW> Caddo= up to 32 per small plant in spots in fields. (D.C. Arnold). KANSAS - Counts on wheat (K.O. Bell, Jr.):

District> County	Number per 0.3 row m	Number of tillers	Number of fields
EC> Franklin	20-24	3	2
EC> Johnson	0	1	2
EC> Osage	0	1	1
EC> Douglas	15-20	4	2
NE> Jefferson	10-20	3-6	3
NE> Jackson	12-30	3-4	2
NC> Cloud	40	3	1
NC> Mitchell	0-35	2-4	3
NC> Osborne	15	3	1
C> Lincoln	0	2	1

CORN LEAF APHID (Rhopalosiphum maidis) - KANSAS - Generally none in State. District> County= averages on wheat [host stage]: C> Lincoln= 0.2 [2 tiller] and NC> Mitchell and Cloud= trace [2-3 tiller]. (K.O. Bell, Jr.).

WHEAT CURL MITE (Eriophyes tulipae) - KANSAS - District> County= status: SC> Kiowa= on seeded wheat adjacent to volunteer field near Greensburg, and SW> Ford= active in volunteer wheat field southeast of Dodge City. (K.O. Bell, Jr.).

TURF, PASTURES, RANGELAND

DISEASES

SCLEROTINIA DOLLAR SPOT (Sclerotinia homoeocarpa) - OKLAHOMA - District> County= status on bermudagrass pasture week of October 24: NE> Ottawa= heavy on 24 ha. (K.E. Conway).

FORAGE LEGUMES

DISEASES

ALFALFA RUST (Uromyces striatus) - KANSAS - District> County= prevalence on alfalfa [36 cm tall]: NC> Mitchell= 100% in 1 field. (K.O. Bell, Jr.).

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= larval averages per 25 sweeps of alfalfa: SW> Grant= 1 at Gila and Hidalgo= 0.1 at Virden. (G. Nielsen). KANSAS - Survey on alfalfa October 14-25 (K.O. Bell, Jr.):

District> County	Adults per 100 sweeps	Host height (cm)	Number of fields
NE> Riley	0-0.5	30-38	2
NC> Mitchell	0	36	1
NC> Osborne	0	38	1
NC> Ottawa	0	23	1
EC> Osage	0	61	1
SC> Stafford	0	-	1
SC> Comanche	0	25-36	2
SC> Reno	1	-	1

INDIANA - District> County= alfalfa weevil status on alfalfa: WC> Warren= eggs averaged less than 1 per 15 sq cm (extraction by blender) and Warren and Fountain= adults 0 in 100 sweeps. (R.W. Meyer).

CLOVER LEAF WEEVIL (Hypera punctata) - KANSAS - Survey on alfalfa October 14-25 (K.O. Bell, Jr.):

District> County	Adults per 100 sweeps	Host height (cm)	Number of fields
NE> Riley	1-1.5	30-38	2
NC> Mitchell	0	36	1
NC> Osborne	0	38	1
NC> Ottawa	0	23	1
EC> Osage	0	61	1
SC> Stafford	-	-	1
SC> Comanche	-	25-36	2
SC> Reno	-	-	1

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - KANSAS - Survey on alfalfa October 14-25 (K.O. Bell, Jr.):

District> County	Counts per 100 sweeps	Host height (cm)	Number of fields
NE> Riley	0	30-38	2
NC> Mitchell	-	36	1
NC> Osborne	0	38	1
NC> Ottawa	0	23	1
EC> Osage	-	61	1
SC> Stafford	-	-	1
SC> Comanche	-	25-36	2
SC> Reno	-	-	1

PEA APHID (Acyrthosiphon pisum) - NEW MEXICO - District> County= status on alfalfa: SW> Grant and Hidalgo= very light, averaged less than 1 per sweep. (G. Nielsen). KANSAS - Survey on alfalfa October 14-25 (K.O. Bell, Jr.):

District> County	Counts per 100 sweeps	Host height (cm)	Number of fields
NE> Riley	10-30	30-38	2
NC> Mitchell	-	36	1
NC> Osborne	2	38	1
NC> Ottawa	400	23	1
EC> Osage	-	61	1
SC> Stafford	-	-	1
SC> Comanche	-	25-36	2
SC> Reno	-	-	1

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - Potential threat to nonresistant seedling alfalfa varieties if not controlled by beneficials. District> County= status on alfalfa: SW> Hidalgo= winged and nonwinged adults in many fields at Virden. (G. Nielsen).. OKLAHOMA - District> County= status on alfalfa: SC> Garvin= moderate to heavy and WC> Washita and SW> Caddo= light. (D.C. Arnold). KANSAS - District> County= counts per 100 sweeps of alfalfa [height] in number of fields (f) October 24-25: NE> Riley= 0-20 [30-38 cm] in

in 2f, NC> Osborne= spotted alfalfa aphid 15 [38 cm] in 1f, and Ottawa= 20 [23 cm] in 1f. (K.O. Bell, Jr.).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa: C> Pinal= 62-252, Maricopa= 86-150, and SW> Yuma= 90-390. (T. Svoboda et al.). NEW MEXICO - District> County= adult averages per 25 sweeps of forage legumes: SW> Grant= 2 at Gila, and Hidalgo= 28 at Virden. (G. Nielsen).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= status on alfalfa: C> Pinal= nymphs 8 per 100 sweeps, Maricopa= nymphs 10-54 and adults 20-64 per 100 sweeps, and SW> Yuma= nymphs 5 and adults 3 per 10 sweeps. (T. Svoboda et al.).

SOYBEANS

DISEASES

SOYBEAN POD AND STEM BLIGHT (Diaporthe (Phomopsis) phaseolorum var. sojae) - NEBRASKA - District> prevalence on soybeans [maturity]: E> usually 8-31%, 0% in 2 fields (7 counties, 17 commercial fields surveyed), and SE> usually 14-27%, 0% in 1 field (6 counties, 13 fields surveyed). (S. Poe).

SOYBEAN CYST NEMATODE (Heterodera glycines) - TENNESSEE - Survey on soybeans up to week ending September 7 (Harrison et al.):

District> County	Infested fields	Noninfested fields
Central Basin> Bedford	3	16
Central Basin> Lincoln	4	2
Central Basin> Macon	1	25
Central Basin> Marshall	16	
Central Basin> Maury	1	29
Cumberland Plateau> Coffee	3	7
Western Rim> Dickson	4	7
Western Rim> Hickman	8	12
Western Rim> Montgomery	2	28

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - District> County= adults per trap in cotton October 1-5 and October 8-12, respectively: Southern High Plains> Howard= 7.4 and 2.4, Glasscock= 3.1 and 1.2, Edwards Plateau> Reagan= 4.4 and 0.68, and Upton= 0.13 and 0.75. (D.G. Foster). SOUTH CAROLINA - District> County= range (mean) per pheromone trap and total October 6-19: E> Marion= 4-92 (24) and 168; Florence= 2-56 (37) and 331; Darlington= 0-232 (21) and 971; Dillon= 0-304 (37) and 3,962; and Marlboro= 0-508 (41) and 11,746. (M. Alexander et al.).

TOBACCO

DISEASES

BLUE MOLD (Peronospora tabacina) - KENTUCKY - Serious problem on tobacco in many areas week ending August 24. (P.E. Sloderbeck).

MISCELLANEOUS FIELD CROPS

INSECTS

A PYRALID MOTH (Fumibotys fumalis) - WASHINGTON - District> County= status October 18: C> Yakima= larvae and hibernaculum in many peppermint fields in Harrah and Wapato areas of lower Yakima Valley. Estimated damage to some fields 80-90%. Heaviest infestation about 80 larvae per 0.09 sq m. (D. Polk).

GENERAL VEGETABLES

INSECTS

A SCOLYTID BEETLE (Xylosandrus crassiusculus) - SOUTH CAROLINA - New county record. District> County= collection data from sweetpotato: E> Marion= collected at Rains, September 19, 1979, by D.C. Weeks, determined by D.M. Anderson. (J.B. Kissam).

A PLATYPODID BEETLE (Platypus compositus) - SOUTH CAROLINA - New county record. District> County= collection data from sweetpotato: E> Marion= collected at Rains, September 19, 1979, by D.C. Weeks, determined by D.M. Anderson. (J.B. Kissam).

DECIDUOUS FRUITS AND NUTS

INSECTS

CODLING MOTH (Laspeyresia pomonella) - INDIANA - District> County= counts in 5 pheromone or live-baited traps October 18-24: SW> Knox= 0 (T. Mouzin) and WC> Tippecanoe= 0 (R.W. Meyer).

A DIASPIDID SCALE (Velataspis dentata) - FLORIDA - New county record. District> County= collection data from Diospyros sp. (a persimmon): S> Hardee= adults on stems along roadside near river at Gardner, September 24, 1979, collected by J. Felty and Z. Smith, determined by A.B. Hamon. (J. Felty, Z. Smith).

WALNUT HUSK FLY (Rhagoletis completa) - UTAH - New county record. District> County= collection data from walnuts: C> Sanpete= collected at Manti, October 4, 1979, by R. Cox, determined by W.J. Hanson. (R.S. Roberts, T. Reeves).

SMALL FRUITS

INSECTS

CRANBERRY GIRDLER (Chrysoteuchia topiaria) - WASHINGTON - District> County= status on cranberry October 12: W> Pacific and Grays Harbor at Grayland= larvae infested 5 bogs on total of about 8 ha, 25% of larvae in winter hibernaculum. Severely girdled and severed vines, damage 5-50%. Pest not common in State. (C.S. Shanks).

A COREID BUG (Zicca taeniola) - FLORIDA - New county record. District> County= collection data from Vaccinium ashei (rabbit-eye blueberry): C> Hernando= adult collected from leaf in nursery at Brooksville, September 6, 1979, by R. Phillips, determined by F.W. Mead. Host in nursery 1+ years. (R. Phillips).

FOREST AND SHADE TREES

INSECTS

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - New county record. District> County= collection data from Liquidambar styraciflua (sweetgum) tree: S> Highlands= adults collected from leaves at State park at Sebring, July 30, 1979, by J. Felty and Z. Smith, determined by A.B. Hamon. Plants growing in wild. (J. Felty)

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - OKLAHOMA - District> County= status on cattle: NC> Major= 50-100 per head. (D.C. Arnold).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

A EULOPHID WASP (Tetrastichus julis) - District> County= recoveries of 20+% parasitism of Oulema melanopus (cereal leaf beetle) larvae from individual oat fields, unless stated otherwise, May 15 to June 29. KENTUCKY - E> Lewis= 29% and 50% near Tollesboro. INDIANA - SE> Franklin= 50% in Brookville Township, 24%, 33%, 50%, and 100% in Bath Township, 25%, 50%, 55%, 64%, and 100% in Springfield Township, NE> Huntington= 50% with 100% in 6 fields in Jackson Township and 33%, 50%, and 100% in Clear Creek Township, and NC> St. Joseph= 33%, 47%, and 100% in Olive Township.

OHIO - WC> Shelby= parasitism by T. julis 98% in Green Township, Champaign= 75% on wheat in Wayne Township and 100% in Johnson Township, SW> Montgomery= 87% in Butler Township, 90% in Perry Township, and 50% in German Township, Clermont= 25% on wheat in Jackson Township, NE> Columbiana= 25% in Elkrun Township, 100% in Butler Township, and 41% in Hanover Township, Mahoning= 93% in Jackson Township, SE> Athens= 80% in Ames Township, C> Knox= 50% on wheat in Wayne Township and 33% on wheat in Miller Township, Licking= 72%, 83%, and 100% in Washington Township and 33%, 40%, 75%, with 100% in 4 fields in Eden Township, Fayette= 100% in Union Township, 30%, 33% in 2 fields, 50%, 57%, and 70% in Jefferson Township, and 39%, 60%, and 100% in Paint Township, and EC> Jefferson= 77% in Mount Pleasant Township. MICHIGAN - SW> Berrien= 25% in 3 fields, 31%, and 100% in 2 fields in Bertrand Township and 100% in 2 fields in Galien Township.

NORTH CAROLINA - New State record. District> County= collection data from Oulema melanopus (cereal leaf beetle) larvae: Northern Piedmont> Stokes= parasitism by T. julis 8% in oat field in Germanton Township, May 1, 1979, collected by J. Mitchell, determined by R. Galloway and V.E. Montgomery; new county records: Northern Piedmont> Rockingham= parasitism 4% in wheat field in Oregon Hill, May 3, collected by R. Galloway and B.T. Hoffman and Northern Mountain> Wilkes= parasitism 33% in barley field in Lomax Township, May 8, collected by R. Hunt. Both determined by R. Galloway and V.E. Montgomery.

MARYLAND - New county records. S> Prince Georges= parasitism 3% in wheat field near Beltsville, June 6, 1979, collected by C. Staines, NC> Carroll= parasitism 13% and 20% in 2 barley fields near Sykesville, June 1, collected by T. Shea, Frederick= parasitism 3% in Mount Pleasant Township, June 4, collected by P. Shea, and Montgomery= parasitism 8% in oat field near Bootjack, June 7, collected by D. Femiano, all determined by V.E. Montgomery. Recoveries of 20+% parasitism of Oulema melanopus (cereal leaf beetle): NC> Washington= 40% on unknown host crop near Funkstown, 35% near Smithsburg, and 32% and 87% in Clear Spring Township. NEW JERSEY - N> Sussex= 33% on grasses in Frankford Township and 25% on grasses in Wantage Township, Warren= 20%, 33%, 38%, and 50% in 2 fields in Franklin Township and 36%, 50%, and 100% in Harmony Township, C> Monmouth= 90% in Upper Freehold Township, and S> Gloucester= 26% in Elk Township.

PENNSYLVANIA - New county record. SE> Lancaster= parasitism by T. julis 14% in oat field in East Donegal Township, June 5, 1979, collected by J. Miller, determined by V.E. Montgomery. Recoveries of 20+% parasitism of cereal leaf beetle. C> Dauphin= 61% and 100% in Halifax Township, 29% and 90% in Jackson Township and 80% and 100% in Washington Township, Northumberland= 38% and 95% in Jordan Township, 63% and 100% in Jackson Township, and 100% in 2 fields in West Chilasquakee Township, Perry= 38% and 89% in Centre Township, 81% and 100% in Jackson Township, 92% and 100% in Liverpool Township, Juniata= 60% and 80% in Milford Township, 78%, 84%, and 100% in Spruce Hill Township, Snyder= 50% in Washington Township and 100% in 2 fields in Franklin Township, Mifflin= 95% in Union Township, 60% in Menno Township, and 100% in Granville Township, Blair= 50% in 2 fields and 100% in 2 fields in Taylor Township, 50% in 3 fields and 100% in 2 fields in North Woodbury Township, SE> Lancaster= 100% in East Donegal Township, 26% and 33% in Pequea Township, Berks= 100% in Bethel Township, 100% in Upper Bern Township, 100% in Penn Township, 52% in Richmond Township, 39% in Hereford Township, SC> Cumberland= 25% in West Pennsboro Township, 100% in Dickinson Township, and 80% in Southampton Township, NE> Susquehanna= 25% and 100% in Rush Township, EC> Northampton= 33% and 93% in Bushkill Township, 91% in East Allen Township, and 100% in Lower Nazareth Township, SW> Somerset= 46% in Stoney Creek Township, 63% in Conomaugh Township, 71% in Lincoln Township, 47% in Somerset Township, 100% in Brothersvalley Township, and 80% in Addison Township, and NC> Bradford= 100% in Wyalusing Township. NEW YORK - W> Ontario= 100% in Seneca Township, C> Otsego= 100% in Laurens Township, 67% and 100% in Hartwick Township, and N> Jefferson= 100% in Le Ray Township. (T.L. Burger).

AN ICHNEUMONID WASP (Lemophagus curtus) - MARYLAND - New State record. District> County= collection data from Oulema melanopus (cereal leaf beetle) larvae: NC> Washington= parasitism 1% in oat field in Clear Spring Township, May 31, 1979, collected by M. Anderson, determined by V.E. Montgomery. (T.L. Burger).

A(41).1979

FEDERAL AND STATE PROGRAMS

INSECTS

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - New county record. District> County= collection data from citrus plant: S> Highlands= eggs, larvae, and pupae found on 4-5 leaves at residence at Lake Placid, September 20, 1979, by J.W. Thomas, determined by J. McCluskie, and confirmed by A.B. Hamon. Found on additional properties since initial find. (F.W. Mead).

GRASSHOPPERS - ARIZONA - Adults of many species infested 341,961 ha. District> County= status: N> Yavapai, SE> Gila, and Graham= heaviest concentrations, Pima, Santa Cruz, Cochise, N> Apache, and Coconino= lighter concentrations, N> Navajo and Mohave= lightest concentrations. (B. Thornley). COLORADO - Area> status of Melanoplus spp. on winter wheat: NE> adult feeding caused border damage on many fields, destroyed up to 10 drill rows in several areas. (W.M. Hantsbarger). KANSAS - Mostly Melanoplus sanguinipes ate 7 m of wheat field margins to ground level adjacent to infested old wheat stubble fields in other infested weedy situations. District> County= counts in number of fields (f) October 16: SW> Grant= 0 in 4f, Stevens= 0 in 4f, WC> Wichita= 1-2 in 3f, Logan= 0-2 in 3f, Wallace= 1-2 in 3f, Greeley= 1-4 in 3f, NW> Rawlins= 0-1 in 2f, Cheyenne= trace to 6 in 5f, and Sherman= 2-4 in 5f. (M.L. Shuman).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= percent larval infestations on cotton: SW> Yuma= 25% and C> Maricopa= 0-4%; adult pheromone trap catches per trap per night: Maricopa= 0-38 and SW> Yuma= 10-98. (E. Hall et al.). NEW MEXICO - District> County= status on cotton: SE> Eddy and Chaves= larva found on lint cleaners, Eddy= larva on lint cleaner at Malaga (M. Perry), and SW> Hidalgo= no larvae or damaged bolls in 20 fields. (G. Nielsen).

RED IMPORTED FIRE ANT (Solenopsis invicta) - SOUTH CAROLINA - District> County= status October 19: WC> McCormick= 1 mound in pasture about 1 km west of Parksville outside regulated area. (W. Wood).

SCREWWORM (Cochliomyia hominivorax) - Two cases reported from continental United States, October 7-13, in Arizona. Total of 149 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 523 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 55,740,900 as follows: Texas 23,030,500; New Mexico 6,432,000; Arizona 22,552,000; and California 3,726,400. Total of 423,802,829 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

HAWAII PEST REPORT

General Vegetables - LEAFMINER FLIES (Liriomyza spp.) moderate to heavy on 2 ha of tomatoes at Omapio and Pulehu, Maui. Parasitism heavy in older planting at Omapio. Larvae heavily parasitized on 0.05 ha of Chinese peas at Kalamaula, Molokai. (N. Miyahira, L.M. Nakahara).

Infestations of MELON APHID (Aphis gossypii) and MELON FLY (Dacus cucurbitae) very heavy on 0.1 ha of watermelon and adjacent 92.9 sq m of taro at Hoolehua, Molokai. Leaf curling common in watermelon field. Coccinella septempunctata (a lady beetle) common in both plantings. Adult melon fly activity heavy on taro leaves. (L.M. Nakahara). Heavy DIAMONDBACK MOTH (Plutella xylostella) damage on 0.30 ha of head cabbage at 396.2 to 518.2-m elevation at Omapio, Maui. (N. Miyahira).

Ornamentals - TEXAS CITRUS MITE (Eutetranychus banksi) and KIRKALDY WHITEFLY (Dialeurodes kirkaldyi) heavy on roadsides and backyard plumeria at Kaunakakai, Molokai. (L.M. Nakahara).

DETECTION

NEW STATE RECORDS

DISEASES

SOUTHERN LEAF RUST (Puccinia polysora) - OHIO - Paulding County. (p. 794),

INSECTS

A EULOPHID WASP (Tetrastichus julis) - NORTH CAROLINA - Stokes County. (p. 802).

AN ICHNEUMONID WASP (Lemophagus curtus) - MARYLAND - Washington County. (p. 803).

NEW COUNTY RECORDS

DISEASES

SOUTHERN LEAF RUST (Puccinia polysora) - OHIO - See page 794.

INSECTS

CITRUS BLACKFLY (Aleurocanthus woglumi) - FLORIDA - Highlands. (p. 803).

A COREID BUG (Zicca taeniola) - FLORIDA - Hernando. (p. 801).

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - Highlands. (p. 802).

A DIASPIDID SCALE (Velataspis dentata) - FLORIDA - Hardee. (p. 801).

A EULOPHID WASP (Tetrastichus julis) - NORTH CAROLINA - Rockingham and Wilkes (p. 802); MARYLAND - Carroll, Frederick, Prince Georges, and Montgomery; and PENNSYLVANIA - Lancaster (p. 803).

A PLATYPODID BEETLE (Platypus compositus) - SOUTH CAROLINA - Marion. (p. 801).

A SCOLYTID BEETLE (Xylosandrus crassiusculus) - SOUTH CAROLINA - Marion. (p. 801).

WALNUT HUSK FLY (Rhagoletis completa) - UTAH - Sanpete. (p. 801).

LIGHT TRAP COLLECTIONS

CALIFORNIA - Bellota, 10/21, temp. 6-19°C, BL - ARMYWORM (Pseudaletia unipuncta) 53, BEET ARMYWORM (Spodoptera exigua) 16, BLACK CUTWORM (Agrotis ipsilon) 5, CORN EARWORM (Heliothis zea) 1, GRANULATE CUTWORM (Feltia subterranea) 2, VARIEGATED CUTWORM (Peridroma saucia) 1. Manteca, 10/22, temp. 7-23°C, BL - Armyworm 87, beet armyworm 46, black cutworm 3, CABBAGE LOOPER (Trichoplusia ni) 1, corn earworm 2, granulate cutworm 20. FLORIDA - Gainesville, 10/18-23, BL - Armyworm 5, black cutworm 19, FALL ARMYWORM (Spodoptera frugiperda) 1, granulate cutworm 57, YELLOWSTRIPED ARMYWORM (Spodoptera ornithogalli) 2.

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Aonidiella comperei McKenzie a diaspidid scale Det. S. Nakahara	adult	on leaves of Jasminum plants from baggage	Philippines	Honolulu	HI
Cossonus cylindricus Sahlberg a weevil Det. D.R. Whitehead	larval adult	in dunnage	France	Houston	TX
Grapholitha sp. an olethreutid moth Det. V.L. Blackburn	larval	in peaches from baggage	France	Boston	MA
Leperisinus varius (Fabricius) a scolytid beetle Det. D.M. Anderson	adult	in dunnage	France	Charleston	SC
Pityogenes bidentatus (Herbst) a scolytid beetle Det. D.M. Anderson	adult	in dunnage	Spain	Houston	WI
Sirex nitobei Matsumura a siricid wasp Det. D.R. Smith	adult	in wood pallets of screws	Japan	San Francisco	CA
Helix aspersa Muller a helicid snail Det. F. Matthews	juvenile	on Protea cut flowers from cargo	South Africa	Miami	NY
Heterodera oryzae Luc & Berdon cyst nematode Brizuela Det. W.F. Friedman	cyst	with Lilium bulbs from cargo	Japan	Miami	FL

This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR
New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
U.S. Department of Agriculture
Federal Building #1
Hyattsville, Maryland 20782

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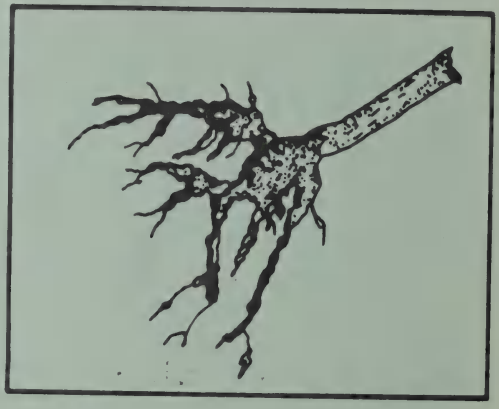
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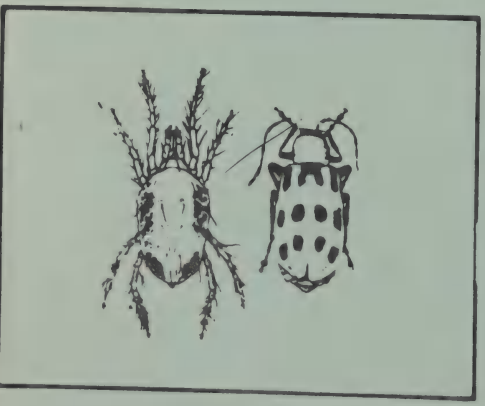
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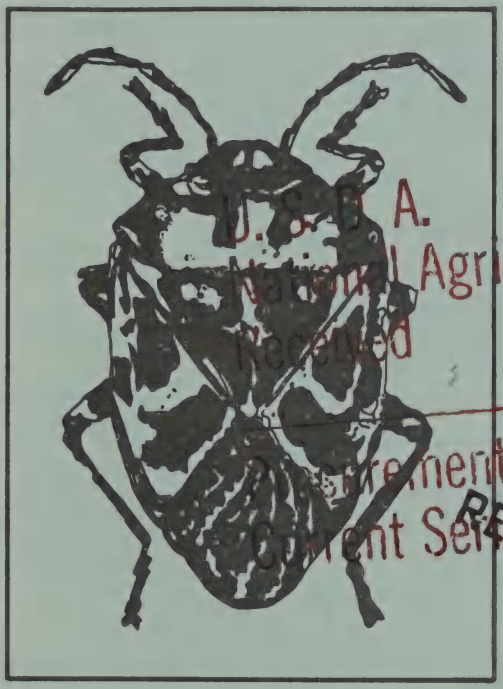
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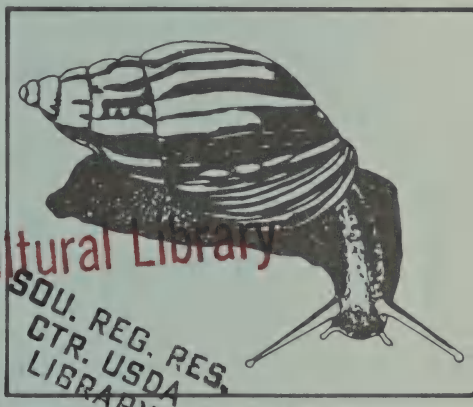
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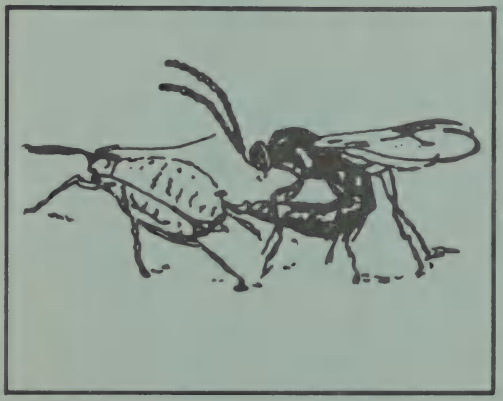
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METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER on corn increased in east, central, and south districts of Nebraska with increased stalk breakage in most districts surveyed. Larval population decreased 44% in Minnesota and increased 25% in Wisconsin. (p. 810-811).

GREENBUG heavy on wheat in some central and west-central areas of Oklahoma. (p. 813).

First fall record of BLUE ALFALFA APHID for Oklahoma. (p. 816).

First record of perfect stage for a POWDERY MILDEW in the United States. (p. 819).

Results of surveys for spring infestations of HESSIAN FLY in Kansas (p. 812-813) and for WHEAT STEM SAWFLY in North Dakota (p. 814).

Prediction

More SOUTHERN PINE BEETLE damage expected in South Carolina next spring unless winter is very cold and long. (p. 821).

Detection

New State records include CORN GRAY LEAF SPOT in Ohio (p. 809-810), BLUE ALFALFA APHID in Missouri (p. 816), PINEWOOD NEMATODE in Illinois (p. 821), a CECIDOMYIID MIDGE in Oregon (p. 822), an INSECT FUNGUS in Michigan, Pennsylvania, Delaware, and New Jersey (p. 822), an APHID in Utah (p. 826), and a LEAFHOPPER in California (p. 826).

New county records on pages 826-828.

New host records for EUROPEAN GRAIN MOTH in Tennessee (p. 819) and PINEWOOD NEMATODE in Arkansas. (p. 821).

Some First Occurrences of the Season

WINTER MOTH adults on filbert and elm in Oregon. COMMON CATTLE GRUB in Oklahoma.

Reports in this issue are for the weeks ending November 2-23 unless otherwise indicated.

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DISEASES

STALK ROTS - NEBRASKA - See EUROPEAN CORN BORER (Ostrinia nubilalis) on p. 810. OHIO - Mainly CEREAL ANTHRACNOSE (Colletotrichum graminicola) and GIBBERELLA STALK ROT (Gibberella (Fusarium) roseum f.sp. cerealis) in many cornstalks, cereal anthracnose prevalence seemed heavier. Status on cornstalks [maturity] week ending November 2 (R. Hite):

District> County	Prevalence (%)	Number of commercial fields
NC> Crawford	40	1
SC> Brown	65-95	5
SC> Scioto	10	1
SW> Clinton	45-90	2
SW> Montgomery	63	1
WC> Clark	55	1
WC> Darke	85	1
WC> Hardin	45	1
WC> Logan	27	1
WC> Shelby	54	1
NW> Henry	17	2
NW> Paulding	25	1
NW> Van Wert	78	1
NW> Williams	35	1
NW> Wood	43	1
C> Pickaway	15-85	2 (with 8 trial plots)
C> Ross	10	2
C> Union	61	1

RED EAR ROT (Gibberella (Fusarium) roseum f.sp. cerealis) - OHIO - Prevalence on corn [maturity] ears week ending November 2 (R. Hite):

District> County	Prevalence (%)	Number of commercial fields
NC> Ashland	3	1
NC> Crawford	15	1
SW> Clinton	trace	1
WC> Clark	17	1
WC> Darke	5	1
WC> Hardin	80	1
WC> Logan	2	1
WC> Shelby	1-2	1
NW> Henry	5	1
NW> Paulding	32	1
NW> Van Wert	8	1
NW> Williams	38-45	1
C> Pickaway	1-5	2
C> Union	3	1

CORN GRAY LEAF SPOT (Cercospora zeae-maydis) - OHIO - New State and county records. District> County= collection data from Zea mays (corn) [maturity] in 1979: C> Pickaway= prevalence 100%/severity trace to 15% near Circleville in 4 commercial fields, October 4, 1979, collected by R.E. Hite; determined by R.E.

Hite and C.W. Ellett; see table below for new county records and additional finds collected and determined by R.E. Hite. Disease obviously present some time before October 4. Due to late stages of maturity of fields October 18, prevalence and severity difficult to assess but positive confirmation possible in all cases. (R.E. Hite).

District> County	Prevalence (%)	Severity (%)	Number of commercial fields	Nearest city	Date
C> Pickaway	100	trace to 1	2	Circleville	Oct 5
C> Pickaway	scattered	trace	1	Yellowbud	Oct 18
C> Ross	scattered	trace	1	Andersonville	Oct 18
C> Ross	scattered	trace	4	Andersonville	Oct 18
C> Ross	scattered	trace	1	Chillicothe	Oct 18
SC> Pike	scattered	trace	1	Waverly	Oct 18
SC> Pike	scattered	trace	1	Jasper	Oct 18
SC> Scioto	scattered	trace	1	Western Portsmouth	Oct 18
SC> Scioto	scattered	trace	1	Friendship	Oct 18
SC> Scioto	trace*		48	Friendship	Oct 18

*On 48 different entries in hybrid trial plots.

A MEADOW NEMATODE (Pratylenchus sp.) - WISCONSIN - District> County= populations of this species and a DAGGER NEMATODE (Xiphinema sp.), respectively, per 100 cc of soil: C> Portage= heavy, 350 and 50 recovered from composite soil sample in irrigated corn field, population above economic damage threshold. (O.L. Lovett).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - COLORADO - District> County= second generation activity on untreated corn October 24-31: EC> Yuma= stalks broken below ears averaged 18% and dropped ears 9% in northeastern area. (S. Pilcher).

NEBRASKA - Fall European corn borer surveys completed week ending November 8. Surveys in 5 corn fields per county in 5 counties each in northeast, east, southeast, central, south, and southwest districts. Survey in southwest district added due to unusually heavy borer activity during summer and in 1978. Apparently, cooler weather and greater or more favorable distribution of rainfall during past 2 summers favored establishment and development. Fall survey for 1979 (compared with 1978):

District	Average larvae per 100 plants	Average percent of plants infested	Average stalk breakage (%)		
			Above ear	Below ear	Ears on ground
NE	152.0 (233.3)	60.0 (76.5)	28.6 (47.8)	2.9 (2.1)	0.5 (1.8)
E	376.2 (240.4)	82.2 (70.6)	20.6 (21.4)	4.5 (3.2)	1.3 (1.0)
SE	103.7 (175.9)	61.1 (61.3)	24.5 (9.8)	6.8 (4.5)	0.4 (0.2)
C	268.6 (123.7)	96.2 (77.9)	40.0 (24.8)	7.9 (3.8)	1.4 (0.9)
S	251.4 (104.5)	89.0 (68.8)	37.5 (27.1)	10.6 (3.7)	1.4 (1.4)
SW	149.9 (-)	93.8 (-)	40.1 (-)	14.5 (-)	5.9 (-)

District> European corn borer averages per plant compared to 1978 fall levels: NE> decreased 35%, E> increased 56%, SE> decreased 41%, C> increased 117%, S> increased 141%, and SW> 1.5, lighter than expected considering amount of stalk

breakage and dropped ears in fields surveyed. Substantial percentage of 1979 corn harvested, many fields still unharvested in east, central, south, and southwest districts could have extensive losses due to breakage and lodging. Recent cool, moist weather likely to increase stalk decomposition caused by STALK ROTS and increase probability of damage. (D.L. Keith).

MINNESOTA - Fall European corn borer survey completed, 160 corn fields in 32 counties checked, populations in all districts decreased. Ear droppage 0.1% compared to 1.1% in 1978. District> larvae per 100 plants (compared with 1978 populations), average percent of plants infested, and percent shanks infested as of week ending October 27: WC> 64 (187), 50%, and 21%; C> 29 (76), 40%, and 18%; EC> 33 (80), 48%, and 6%; SW> 3 (180), 38%, and 6%; SC> 61 (69), 46%, and 12%; and SE> 27 (36), 36%, and 6%; State averages 42 (104), 43%, and 11.5%. (D.D. Sreenivasam).

WISCONSIN - Total of 212 fields surveyed during fall European corn borer abundance survey. State population averaged 55 larvae per 100 corn plants, above average for past 38 years (44 per 100 plants) and above average for past 5 years (43 per 100 plants). Great variation among fields not reflected in 1979 averages: Late-planted fields frequently had fewer than 25 per 100 plants, frequently 100+ per 100 plants in early planted fields. Second generation populations on sweet corn not reflected in averages. (O.L. Lovett).

District	Larvae per 100 plants	Percent of infested plants
NW	12	14
NC	17	15
NE	40	21
WC	64	37
C	74	63
EC	29	38
SW	70	51
SC	65	33
SE	60	36
Average	55	38

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - NEW MEXICO - District> County= percent cornstalks infested week ending November 16: SW> Luna= 4-20% at Deming, 7-15% at Columbus, and Hidalgo= 2-8% at Virden Valley and 12-82% at Cotton City and Animas, heaviest infestation north of Animas. (G. Nielsen). KANSAS - District> County= infested cornstalk bases per 25 consecutive stalks at 50 paces into 4 fields October 26 and 29: SW> Ford= 0, 0, 2 (no live larvae), and 3 (all with live larvae). (G.A. Salsbury). MISSOURI - Fall abundance survey conducted in early September consisted of 5 fields (50 corn plants per field) per county, 64% of fields infested. (R.E. Munson).

District> County	Percent infested	Percent girdled
SE> Cape Girardeau	5.6	1.6
SE> Mississippi	12.8	4.8
SE> New Madrid	15.2	3.6
SE> Scott	9.2	2.0
SE> Stoddard	8.4	3.2
Average	10.24	3.04

WESTERN CORN ROOTWORM (Diabrotica virgifera) - TEXAS - New county records. District> County= collection data from Zea mays (corn): SC> Bexar= 3 adults collected at residence at San Antonio, June 23, 1977, by N.M. Moritz, determined by B.J. Abraham; Guadalupe= adult collected at New Berlin; and Wilson= adult at La Vernia, June 30, 1978, both collected by L.W. Beikman and determined by R. White. (J.A. Jackman). ILLINOIS - New county record. District> County= collection data from Zea mays (corn): SE> Pope= collected near Rosebud, July 24, 1979, by C. Bremer and D. Krueger, determined by K.D. Black. (K.D. Black).

BANDED CUCUMBER BEETLE (Diabrotica balteata) - TEXAS - New county record. District> County= collection data from Zea mays (corn): SC> Medina= adult collected 2 km south of Castroville, July 11, 1977, by N.M. Moritz, determined by R. White. (J.A. Jackman).

GRAPE COLASPIS (Colaspis brunnea) - TEXAS - New county record. District> County= collection data from sorghum: Coastal Bend> Nueces= 2 adults collected at Chapman Ranch, May 17, 1978, by C.R. Guettler, determined by J.A. Wilcox. (J.A. Jackman).

A CHRYSOMELID BEETLE (Disonycha glabrata) - TEXAS - New county record. District> County= collection data from sorghum: SC> Bexar= 10 adults collected in field at San Antonio, June 20, 1977, by L.W. Beikman, determined by R. White. (J.A. Jackman).

A CHRYSOMELID BEETLE (Altica foliacea) - TEXAS - New county records. District> County= collection data: SC> Bexar= 4 adults per sweep of sorghum collected at Selma, May 8, 1978; and Karnes= 2 adults per corn plant collected at Kenedy, May 16, 1978, both collected by L.W. Beikman and determined by J.A. Wilcox. (J.A. Jackman).

SMALL GRAINS

DISEASES

TAKE-ALL (Gaeumannomyces graminis var. tritici) - MINNESOTA - New county record. District> County= collection data from wheat [late flowering]: SE> Dakota= prevalence 1% at Rosemount, July 11, 1979, collected and determined by E.L. Stromberg. Planting in wheat 8 continuous years. (E.L. Stromberg).

BARLEY YELLOW DWARF VIRUS - NORTH CAROLINA - See GREENBUG (Schizaphis graminum) and CORN LEAF APHID (Rhopalosiphum maidis) on p. 814.

BARLEY ROOT-KNOT NEMATODE (Meloidogyne naasi) - CALIFORNIA - New county records. District> County= collection data from Juncus sp. (a rush) during small grain detection survey: Central Coast> Lake= at Clearlake Oaks, May 7, 1979, Sacramento Valley> Colusa= at Wilbur Springs, May 7, 1979, and Northern Coast> Mendocino= at Rockport, May 8, 1979, all collected by W. McCartney and determined by R.T. Robbins. (C.S. Papp).

INSECTS

HESSIAN FLY (Mayetiola destructor) - KANSAS - District> County= percent volunteer wheat plants infested in number of fields (f) surveyed August 27-30: C> Russell= 0-8% in 3f, Lincoln= 0-8% in 2f, Ellsworth= 36% in 1f, NC> Mitchell= 4% in 1f, and Osborne= 0% in 1f. (J.H. Hatchett, K.O. Bell, Jr.). Average percent wheat stems infested in 1978-1979 crop (compared to 1977-1978 crop) and average puparia per 100 stems in annual survey of spring infestations:

7.4% (6.1%) and 13.9 for 117 certified fields and 3.8% (4.4%) and 13.5 for 353 noncertified fields statewide. Percent certified and noncertified fields infested by Hessian fly (each compared to 1977-1978 crop) 64% (59%) and 42% (55%). Heaviest infestations in central and north-central districts. (J.H. Hatchett). MISSOURI - District> County= status on wheat week ending November 3: NW> Platte= none in 2 early planted fields and W> Vernon= pupae light in 1 field, infested 1% of plants in 2 fields. (R.E. Munson).

GREENBUG (Schizaphis graminum) - WASHINGTON - District> County= status on small grains November 20: EC> Grant= populations mostly light, some spotty infestations with heaviest counts of 20 adults per 0.3 row m. Controls applied. (E. Kulp). TEXAS - Survey on wheat October 19 to November 5 (N.E. Daniels):

District> County	Maximum number per 0.3 row m
Northern High Plains> Potter	0
Northern High Plains> Hutchinson	0
Northern High Plains> Hansford	10
Northern High Plains> Sherman	5
Northern High Plains> Moore	0
Northern High Plains> Oldham	0
Northern High Plains> Deaf Smith	1
Northern High Plains> Castro	5
Northern High Plains> Parmer	1
Northern High Plains> Hartley	0
Northern High Plains> Dallam	1
Northern High Plains> Randall	1
Northern High Plains> Swisher	5
Northern High Plains> Briscoe	0
Northern High Plains> Floyd	0
Northern High Plains> Hale	5
Northern High Plains> Armstrong	0
Northern High Plains> Gray	0
Northern High Plains> Carson	1
Northern High Plains> Roberts	0
Northern High Plains> Ochiltree	5
Northern High Plains> Lipscomb	1
Northern High Plains> Hemphill	0
Northern Low Plains> Hall	1
Northern Low Plains> Donley	0
Northern Low Plains> Childress	0
Northern Low Plains> Collingsworth	1

OKLAHOMA - District> County= greenbug counts per 0.3 row m of wheat for week ending November 9: C> Kingfisher= heavy on young wheat in some areas, few fields treated and SW> Jackson= mostly none, ranged up to 14 in fields checked; week ending November 16: WC> Washita= 0-24 in 8 fields; week ending November 23: WC> Beckham= ranged up to 2,000 in high, thin spots in 1 field, 200-300 in spots in 3 fields and up to 2 in 8 fields, Roger Mills= ranged 2-5 in fields checked; and NC> Garfield= few scattered infestations. (D.C. Arnold).

KANSAS - District> County= greenbugs per 0.3 row m of wheat: EC> Franklin= populations remained about the same in 2 fields, 25 and 44, October 24, and 31 and 40, November 8. Population increase probably checked by rains and cooler weather. (S.C. White). Survey data October 29 to November 8 (K.O. Bell, Jr., S.C. White):

District> County	Number per 0.3 row m	Number of tillers	Number of fields
NE> Pottawatomie	2	6	1
EC> Franklin	0	1	5
EC> Franklin	31-40	3	2
EC> Miami	15	3	1
EC> Anderson	0-6	1-4	2

ARKANSAS - Area> greenbug and PEA APHID (Acyrthosiphon pisum) counts on seedling wheat week ending November 2: NE> very light in fields. (J. Kimbrough). NORTH CAROLINA - District> County= status on oats: Southern Piedmont> Cleveland= collected during early November from 2 fields. Spots to 0.2 ha noticeably yellow in combination with BARLEY YELLOW DWARF VIRUS. Damage very sporadic in State. (S. Gibson, T. Hunt).

AN APHID (Rhopalosiphum padi) - OKLAHOMA - District> County= counts per 0.3 row m of wheat week ending November 16: WC> Washita= 0-50 in 8 fields; week ending November 23: WC> Beckham= 2-1,200. (D.C. Arnold). KANSAS - Survey data on wheat October 29 to November 8 (K.O. Bell, Jr.):

District> County	Number per 0.3 row m	Number of tillers	Number of fields
NE> Pottawatomie	-	6	1
EC> Franklin	0	1	5
EC> Franklin	8-14	3	2
EC> Miami	16	3	1
EC> Anderson	0 to trace	1-4	2

CORN LEAF APHID (Rhopalosiphum maidis) - NORTH CAROLINA - District> County= status of this species and ENGLISH GRAIN APHID (Macrosiphum avenae) on wheat week ending November 9: Southern Piedmont> Cleveland, Central Piedmont> Iredell, and Rowan= scattered heavy infestations in early planted fields, 50+ per 13-cm plant. Vectors of BARLEY YELLOW DWARF VIRUS but disease symptoms most noticeable in spring. (T. Hunt).

WHEAT STEM SAWFLY (Cephus cinctus) - NORTH DAKOTA - Survey of hard red spring wheat stubble fields for 1979 (C. Scholl):

District> County	Average (%) stems cut	Range per field	Fields (%) with cut stems	Fields sampled
NW> Renville	0	0	0	11
NC> Bottineau	0.29-1.34	0.14	17	12
NC> McHenry	0.25-3.48	0.33	31	16

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - NEW MEXICO - District> County= counts on alfalfa week ending November 2: SE> Dona Ana= larvae averaged less than 1 per 25 sweeps in 14 fields in southern area; week ending November 9: SW> Hidalgo and Luna= light, larvae fewer than 1 per 50 sweeps and adults fewer than 1 per 500

sweeps in 30 fields; and week of November 21: NE> De Baca= alfalfa weevil averaged 1 larva and 2 adults per 25 sweeps in 14 fields in Fort Sumner area (G. Nielsen) and SE> northern Eddy and southern Chaves= 1.25 larvae and 0.5 adult per 0.09 sq m in 7 fields (L. Gholson, J. Lopez).

KANSAS - Alfalfa weevil on alfalfa October 26 to November 8 (G.A. Salsbury, et al.):

District> County	Adults per 100 sweeps	Host height (cm)	Number of fields
SW> Ford	0	-	1
SC> Edwards	0	25-56	2
SC> Sedgwick	0-1	10-25	3
SC> Pratt	0	10	1
SC> Reno	0	18	1
EC> Douglas	0	51	1
EC> Franklin	0	10	1
EC> Anderson	0	71	1
NE> Riley	0.5	36	1

MISSOURI - District> County= alfalfa weevil adults per 10 sweeps of alfalfa week ending November 3: SW> Barton= 1-5.5 in 2 fields. (R.E. Munson).

INDIANA - District> County= alfalfa weevil eggs range (average) per 15 sq cm of alfalfa [height] in 1 established field each, week ending November 2: SC> Harrison= 0-16 (5.6) [41 cm] in 6 of 10 samples. Adults 11 in 500 sweeps in same field. Entomophthora phytonomi (an insect fungus) destroyed nearly all larvae in same field this spring, but apparently large larval numbers developed before onset of disease. New fields had 1 egg in 6 samples. Washington= 0-44 (8.3) [12.6 cm] in 7 of 10 samples. Fourth instar larvae 7, and adults 48 in 800 sweeps. Field harvested about September 15 but only grew about 13 cm. Jackson= 0-13 (5.3) [17 cm] in 8 of 10 samples and C> Morgan= none, field probably not attractive due to heavy damage by MEXICAN BEAN BEETLE (Epilachna varivestis). Adults 1 in 50 sweeps. Adults actively mated and laid eggs in laboratory. Week ending November 9: C and EC areas> 0-25 (1.8) [no data] in 10 samples from 5 fields each. Infested samples per field ranged 1-4. (R. Meyer).

CLOVER LEAF WEEVIL (Hypera punctata) - KANSAS - Survey on alfalfa October 26 to November 8 (G.A. Salsbury et al.):

District> County	Adults per 100 sweeps	Host height (cm)	Number of fields
SW> Ford	0	-	1
SC> Edwards	0	25-56	2
SC> Sedgwick	0	10-25	3
SC> Pratt	0	10	1
SC> Reno	0	18	1
EC> Douglas	1	51	1
EC> Franklin	0	10	1
EC> Anderson	trace	71	1
NE> Riley	0.5	36	1

MEXICAN BEAN BEETLE (Epilachna varivestis) - INDIANA - District> status on alfalfa week ending November 2: C> Morgan County= adults 1 per sweep and damage so heavy that field silvered as if heavily infested by ALFALFA WEEVIL (Hypera

postica) larvae, growth stunted, stems fibrous and probably not attractive to weevil; SC> and C> Mexican bean beetle adults rarely fewer than 0.5 per sweep, common in every established field surveyed. (R. Meyer).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - OKLAHOMA - New county records. District> County= collection data from alfalfa: C> Kingfisher= at Dover, Canadian= 11 km southeast of Okarche, and Logan= near junction of State Highway 51 and U.S. Highway 77. All collected April 17, 1979. Collected and determined by D.C. Arnold. EC> Hughes= at Atwood, June 28, 1979. Collected and determined by R.C. Berberet. First fall records for State. District> County= status on alfalfa: C> Payne= averaged 1 per 50 sweeps November 11 and November 16. (D.C. Arnold). KANSAS - District> County= blue alfalfa aphid counts per 10 sweeps of alfalfa [height] in 1 field each October 29 to November 8: EC> Douglas= 0 [51 cm], Franklin= 10 [10 cm], and Anderson= 0 [71 cm]. (S.C. White, K.O. Bell, Jr.). MISSOURI - New State record. District> County= collection data from alfalfa: NW> Platte= collected at Weston, June 21, 1979, by R.E. Munson, determined by M.B. Stoetzel. (R.E. Munson).

PEA APHID (Acyrthosiphon pisum) - ARIZONA - District> County= immatures and adults per 100 sweeps (unless stated otherwise) of alfalfa week ending November 2: C> Maricopa= 100 (L. Lee et al.); week ending November 16: C> Maricopa= 60-100 per 50 sweeps, SW> Yuma= 20-130, SE> Pima= 200 (R. Eiland et al.); and week ending November 23: C> Maricopa= adults 32-90, Pinal= all stages 50-384, and SW> Yuma= all stages 10-40 (M. Tanka et al.).

NEW MEXICO - District> County= pea aphid status on alfalfa week ending November 2: SE> Dona Ana= populations still light in established stands in southern area. Appeared to be increasing in seedling fields where nymphs and adults averaged 20 per sweep in 2 of 5 fields. Week of November 21: NE> De Baca= nymphs and adults 3-40 per 25 sweeps in 14 fields, Curry= 0-60 per 25 sweeps, and SE> Eddy= 5-40 (G. Nielsen), SE> southern Chaves and northern Eddy= still problem in few fields, adults up to 6 per 0.09 sq m. (L. Gholson, J. Lopez). KANSAS - District> County= counts per 10 sweeps of alfalfa [height] in 1 field each, October 29 to November 8: EC> Douglas= 634 [51 cm], Franklin= 8 [10 cm], and Anderson= 46 [71 cm]. (S.C. White, K.O. Bell, Jr.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - District> County= status on alfalfa week ending November 2: SE> Dona Ana= began to appear in many fields in southern area. Nymphs and adults light, 0-35 per 25 sweeps. Heaviest on seedling alfalfa. (G. Nielsen). OKLAHOMA - District> County= average per 10 sweeps of alfalfa week ending November 9: EC> Muskogee= 3 in 3 fields. (D.C. Arnold). INDIANA - District> County= counts per 500 sweeps of alfalfa in established fields week ending November 2: SC> Harrison and Washington= not more than 50. (R. Shade).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= counts per 100 sweeps of alfalfa week ending November 2: C> Pinal= adults 32, Maricopa= adults 4, SW> Yuma= larvae 200-400 and adults 250 (L. Lee et al.); adults week ending November 9: C> Maricopa= 140, Pinal= 41-100, and SW> Yuma= 140-160. (L. Blackledge et al.); week ending November 16: C> Maricopa= adults 54-128 and SW> Yuma= immatures and adults 20-140 (R. Eiland et al.); and adults week ending November 23: C> Maricopa= 18-100, Pinal= 12-18, and SW> Yuma= 6-130. (M. Tanka et al.). NEW MEXICO - District> County= adult averages per 0.09 sq m of alfalfa week of November 21: SE> northern Eddy and southern Chaves= 1.5-2 in 7 fields. (L. Gholson, J. Lopez).

BEET ARMYWORM (Spodoptera exigua) - ARIZONA - District> County= larvae per 100 sweeps of alfalfa week ending November 9: C> Maricopa= 20-26, Pinal= 9, and SW> Yuma= 0-160. (L. Blackledge et al.).

TARNISHED PLANT BUG (Lygus lineolaris) - OKLAHOMA - District> County= average per 10 sweeps of alfalfa week ending November 9: EC> Muskogee= 20 in 3 fields. (D.C. Arnold).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending November 16: SW> Yuma= 40-100 (R. Eiland et al.); counts week ending November 23: C> Maricopa= adults 8-40, Pinal= nymphs 21-36 and adults 14-86, and SW> Yuma= adults 3-160 (M. Tanka et al.).

SOYBEANS

DISEASES

SOYBEAN CYST NEMATODE (Heterodera glycines) - MINNESOTA - New county records. District> County= collection data from Glycine max (soybean): C> Kandiyohi= collected near Pennock, August 21, 1979, by D.E. Schulz and SW> Cottonwood= collected near Comfrey, August 23, by G.J. Miller. Both determined by M.C. Schreiber and confirmed by D.H. MacDonald; another collection made in former county near Big Kandiyohi Lake, August 24, by R.W. Salmela, determined and confirmed by M.C. Schreiber; SC> Brown= collected in Bashaw Township, September 12, by M.P. Schlick, and Waseca= collected in Woodville Township, September 14, by D.E. Schulz. Both determined by M.C. Schreiber and confirmed by D.H. MacDonald. (D.D. Sreenivasam).

INSECTS

GRAPE COLASPIS (Colaspis brunnea) - ARKANSAS - District> County= larval status up to week ending November 21: EC> Lee= survey for overwintering larvae in harvested soybean fields. Soil core samples (diameter 10 cm) from 12 random sites in each field. Samples processed by wash/brine flotation technique. (M.A. Mayse).

Field Number	Mean number of larvae per core at depth of		
	0-9 cm	9-18 cm	18-23 cm
1	0	4	26
2	0	5	31
3	0	4	29
4	0	0	47
5	0	7	35

SOUTHERN GREEN STINK BUG (Nezara viridula) - SOUTH CAROLINA - District> County= nymphal and adult averages per 0.3 row m of soybeans week of November 1: S> Barnwell= 26 in 8-ha field near Kline and Hampton= 10 in field near Furman. Damage extensive. Overwintering generation severely reduced by hard winters in State. Counts this fall indicated pest will be more of problem in Coastal Plains in 1980. (J. Cely, J.W. Chapin).

PEANUTS

INSECTS

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - SOUTH CAROLINA - District> County= status on peanuts October 31 and November 14: WC> Saluda= damage heavy to nuts, field surveys in 1980 should help prevent problem. (R. Sligh, P.R. Johnson).

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - TEXAS - District> County= October 15-19 and October 22-26, respectively, in number of pheromone traps: Southern High Plains> Martin= 4 and 0 in 25, Howard= 500 and 139 in 51, Glasscock= 76 and 69 in 32, Edwards Plateau> Reagan= 22 and 28 in 19, and Upton= 1 and 12 in 8. (D.G. Foster).

SOUTH CAROLINA - Boll weevil trap monitoring terminated for season week of November 15:

District> County	Range per trap	Mean per trap	Total
October 20 to November 2 (M. Alexander et al.):			
E> Florence	2-288	73	653
E> Darlington	0-313	40	1,817
E> Marion	77-478	230	1,382
E> Dillon	0-999	81	8,772
E> Marlboro	0-796	58	14,585
Week of November 15 (B. Lott, B. White):			
E> Marlboro	0-652	80	12,523

SUGAR BEETS

INSECTS

PEA APHID (Acyrthosiphon pisum) - ARIZONA - District> County= immatures and adults per 100 sweeps of sugar beets week ending November 16: C> Pinal= 130. (L. Lee et al.).

POTATOES, TOMATOES, PEPPERS

INSECTS

PEPPER WEEVIL (Anthonomus eugenii) - NORTH CAROLINA - District> County= status on bell peppers week ending November 2: Southern Coastal> Sampson= infested scattered fields. Yield losses 30-50% in about 5 fields. Not known to overwinter in State and is transported into State by out-of-State plants yearly. (K. Sorensen).

A CHRYSOMELID BEETLE (Disonycha glabrata) - TEXAS - New county record. District> County= collection data from tomato: SC> Karnes= 2 adults per plant at Runge, May 16, 1978, by L.W. Beikman, determined by J.A. Wilcox. (J.A. Jackman).

BEANS AND PEAS

INSECTS

A CHRYSOMELID BEETLE (Disonycha glabrata) - TEXAS - New county record. District> County= collection data from beans: SC> Guadalupe= 10 adults collected in garden at Seguin, July 18, 1977, by L.W. Beikman, determined by R. White. (J.A. Jackman).

CUCURBITS

DISEASES

A POWDERY MILDEW (Sphaerotheca fuliginea) - CALIFORNIA - District> County= status on cucumber: Central Coast> Contra Costa= cleistothecium stage found at Brentwood, October 30. Record reported in CPPR 4(1):5, 11 should be first record of perfect stage for United States. (D.G. Kontaxis).

GENERAL VEGETABLES

INSECTS

EUROPEAN GRAIN MOTH (Nemapogon granella) - TENNESSEE - New county record and new host record for State. District> County= collection data from Ipomoea batatas (sweetpotato): Western Rim> Lawrence= collected in storehouse 8 km east of Lawrenceburg on U.S. Highway 64, March 6, 1979, by J.B. Bogard, determined by D.M. Weisman. (M.E. Cooper, J.R. White).

AN APHID (Brachycolus asparagi) - MISSOURI - New State record. District> County= collection data from asparagus: E> Gasconade= collected at Hermann, August 1, 1979, by A.E. Gaus, determined by M.B. Stoetzel. (R.E. Munson).

DECIDUOUS FRUITS AND NUTS

INSECTS

WINTER MOTH (Operophtera brumata) - OREGON - County= status in abandoned filbert orchards: Washington= sampling pupal populations near Tigard underway since mid-September. Collections October 31 indicated emergence to begin soon, as many pupae fully grown then. First adults emerged in laboratory October 26 from material collected in field in late May. Emergence began, first males trapped November 5. One adult trapped in abandoned filbert orchard about 3 km west of Wilsonville, no additional adults trapped through November 8. Females began emergence November 12, first collected on sticky band near Tigard. Number of males continued to increase during week. Males averaged 3 per tree on November 10 and 29.5 on November 15. Female emergence increased sharply during mid-November, 71 females trapped on 6 sticky bands near Tigard, November 16-18. (D. Kimberling, R. Penrose).

PEACHTREE BORER (Synanthedon exitiosa) - ARKANSAS - District> County= status on peach week ending November 2: SE> Desha and Drew= larval infestations evident by sap flowing from tree wounds, heavier than usual this year. (M. Wall).

PECAN SPITTLEBUG (Clastoptera achatina) - ARKANSAS - Area> this species and undetermined species of APHIDS on pecans week ending November 2: SE> unusually heavy on trees this fall. Infestations particularly heavy in Ashley County. (M. Wall).

CITRUS

INSECTS

WOOLLY WHITEFLY (Aleurothrixus floccosus) - CALIFORNIA - New county record. District> County= collection data from citrus: San Joaquin Valley> Kern= eggs, nymphs, and adults averaged 45 per leaf at Santa Barbara, collected June 15, 1979, by S. Loyal and F.L. Johnson, and determined by R.J. Gill. (C.S. Papp).

TEXAS LEAFCUTTING ANT (Atta texana) - TEXAS - New county record. District> County= collection data from citrus: South Texas> Dimmit= 200 adults in grove at Carrizo Springs, January 26, 1979, by J. Reynolds, and determined by R.L. Hodgdon. (J.A. Jackman).

ORNAMENTALS

INSECTS

IMPORTED LONGHORNED WEEVIL (Calomycterus setarius) - IOWA - New county records. District> County= collection data (host not reported): SE> Henry= collected from private dwelling at Mount Pleasant by J. Vroom and C> Poweshiek= collected at Montezuma by V. Jones. Both collected July 17, 1978, and determined by D.R. Lewis. (L.H. Townsend).

APPLE APHID (Aphis pomi) - OKLAHOMA - Apparent first record since collection on apple in same area in 1923. District> County= status on flowering quince: C> Payne= infestation heavy at Stillwater, June 3, 1979. (D.C. Arnold).

SPIREA APHID (Aphis citricola) - OKLAHOMA - New host record for State. District> County= collection data from pyracantha: C> Payne= infestation moderate at Stillwater, May 24, 1979, collected by D.C. Peters, determined by M.B. Stoetzel. (D.C. Arnold).

AN APHID (Cinara tujafilina) - OKLAHOMA - First of season. District> County= status on arborvitae November 13: C> Payne= infestations light in Stillwater area. (D.C. Arnold).

FERN SCALE (Pinnaspis aspidistrae) - FLORIDA - New county record. District> County= collection data from Nephrolepis exaltata cv. Bostoniensis (Boston fern): NW> Santa Rosa= all stages moderately infested leaves and stems of 25% of 100 plants in nursery at Milton, September 5, 1979, collected by D. Reese, determined by A.B. Hamon. Plants in nursery 1+ years. (D. Reese).

A DIASPIDID SCALE (Aonidomytilus solidaginis) - FLORIDA - New county record. District> County= collection data from Eupatorium capillifolium (dog fennel): S> De Soto= adults scattered on stems in wild near Arcadia, November 5, 1979. Collected by Z. Smith and G. Smith, determined by A.B. Hamon. (Z. Smith, G. Smith).

A SOFT SCALE (Pulvinaria mesembryanthemi) - CALIFORNIA - New county record. District> County= collection data from Carpobrotus edulis (ice-plant): Southern California> Los Angeles= population heavy on freeway planting at Long Beach, August 3, 1979. Collected by R. Iizuka, determined by R. Gill. (C.S. Papp).

CITRUS RED MITE (Panonychus citri) - OREGON - County= status on skimmia [about 6 m tall] plants November 19: Benton= infestation (all stages, larvae active) very heavy on university campus at Corvallis. Plants in this site for several years, some completely defoliated, others show extensive foliar damage. (J. Mellott).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - New host record for United States. District> County= collection data from Pinus thunbergiana (Japanese black pine): NE> Craighead= collected at residence at Caraway, September 4, 1979, by M. Tucker. C> Pulaski= also collected at Little Rock. New county records. District> County= collection data: NW> Washington= collected in wood sections from branches of dying Pinus sylvestris (Scotch pine) at university experiment station nursery at Fayetteville, July 31, 1979. Collected by R.T. Robbins. Host in nursery since 1959. NE> Greene= collected from Pinus taeda (loblolly pine) at Paragould, September 20, by J.E. Bevill, and NW> Benton= collected from Japanese black pine and Scotch pine at Siloam Springs, September 27, by V. Griffin. All determined by R.T. Robbins. (M.A. Mayse).

MISSOURI - New county record for pinewood nematode. District> County= collection data on Pinus sylvestris (Scotch pine): E> Jefferson= collected on roadside at Adar Hill, August 6, 1979, by S. Downing, determined by A. Foudin and W. Friedman. (A. Foudin). ILLINOIS - New State record. District> County= collection data from mature pines that died summer 1979: WSW> Madison= collected from Pinus nigra (Austrian pine) on residential property near Collinsville, September 14, 1979, by W.B. Siefert and R.B. Malek. New county record. SE> Pope= collected from Pinus sylvestris (Scotch pine) in plantation planting in agricultural research center at Dixon Springs, October 10, 1979, by J.E. Appleby. Both determined by R.B. Malek. (E.G. Jordan).

INSECTS

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - SOUTH CAROLINA - Infestations still severe in 17 counties declared as forest pest outbreak zone. Aerial survey to be conducted in December to reevaluate infested areas. Activity in some spots seems to be decreasing but most infestations increasing rapidly. Cooler weather should slow down activity; unless extended very cold weather occurs this winter, more damage expected next spring. District> County= status week ending November 2: NW> Anderson and Pickens= additional extensive damage. (M.C. Remion).

WINTER MOTH (Operophtera brumata) - OREGON - Emergence began, first males trapped November 5. County= status: Multnomah= 2 taken on sticky bands on elm in downtown Portland Area. (R.L. Penrose, D. Kimberling).

A CECIDOMYIID MIDGE (Dasineura gleditchiae) - OREGON - New State record. County= collection data from Gleditsia triacanthos (honeylocust): Umatilla= 29 adults collected flying around dooryard planting at Hermiston, May 30, 1979, by K.J. Goeden and R.L. Penrose, determined by R.J. Gagne. (K.J. Goeden, R.L. Penrose).

AN APHID (Calaphis betulella) - OKLAHOMA - New county record. District> County= collection data from red birch: SE> McCurtain= infestation moderate in Beavers Bend State Park, June 13, 1979, collected by D.C. Arnold, determined by M.B. Stoetzel. (D.C. Arnold).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - ARKANSAS - District> County= adults on cattle week ending November 9: NE> Greene= continued at about normal levels, especially apparent on warm, sunny afternoons. (J.E. Aikman). FLORIDA - District> County= counts per head October 25: C> Alachua= averaged 175 in small dry-dairy herd at Archer; average per animal in nonmilking dairy herd November 16: C> Alachua= 56 at Archer. (D. Boyd).

COMMON CATTLE GRUB (Hypoderma lineatum) - OKLAHOMA - First of season. District> County= counts on backs of calves week ending November 23: EC> Pittsburg= ranged 2-6 per back. (D.C. Arnold).

A CIMICID BUG (Hesperocimex coloradensis) - NEVADA - New county record. District> County= collection data: W> Ormsby= collected biting humans at residence in Independent City of Carson City, May 30, 1979, by M. Baker, determined by R.C. Bechtel. Known to infest woodpeckers and purple martins. (R.C. Bechtel).

BENEFICIAL ORGANISMS & THEIR ENEMIES

DISEASES

AN INSECT FUNGUS (Entomophthora phytonomi) - New State records. District> County= collection data from Hypera postica (alfalfa weevil) larvae in alfalfa. MICHIGAN - SW> Berrien= collected at Galien, June 5, 1978, by T.L. Burger and R.J. Dysart. PENNSYLVANIA - SE> Chester= collected at Oxford, May 31, 1978, by W.H. Day and R.H. Speck. DELAWARE - N> New Castle= collected at Newark, May 29, 1979, by R.M. Henderson and W.H. Day. NEW JERSEY - C> Burlington= collected at Mount Holly, May 25, 1978, by W.H. Day; affected 2% of larvae at larval peak May 16, 1979. New county record for New Jersey. N> Warren= collected at Blairstown, June 6, 1978, by W.H. Day. All determined by W.H. Day, confirmed by D.G. Harcourt. Prevalences at any of these locations ranged from 1% to 23%. (W.H. Day).

INSECTS

A BRACONID WASP (Microctonus aethiopoides) - NEW JERSEY - Parasitism of Hypera postica (alfalfa weevil) on alfalfa [66 cm tall] during larval peak of weevil larvae May 16: SC> Burlington= averaged 59% in overwintered adults and 56% in larvae in untreated fields. Only 25% of fields surveyed had been treated for alfalfa weevil. Pest larvae light, averaged 12 per sweep in 8 of 9 untreated fields. (W.H. Day).

AN ICHNEUMONID WASP (Bathyplectes anurus) - NEW JERSEY - Parasitism of Hypera postica (alfalfa weevil) on alfalfa [66 cm tall] during larval peak of weevil larvae May 16: SC> Burlington= averaged 46% in untreated fields. Only 25% of fields surveyed had been treated for alfalfa weevil. Pest larvae light, averaged 12 per sweep in 8 of 9 untreated fields. (W.H. Day).

AN ICHNEUMONID WASP (Bathyplectes curculionis) - NEW JERSEY - Parasitism of Hypera postica (alfalfa weevil) on alfalfa [66 cm tall] during larval peak of weevil larvae May 16: SC> Burlington= averaged 10% in untreated fields. Only 25% of fields surveyed had been treated for alfalfa weevil. Pest larvae light, averaged 12 per sweep in 8 of 9 untreated fields. (W.H. Day).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - VIRGINIA - New county record. District> County= parasitism of Oulema melanopus (cereal leaf beetle) larvae on oats: C> Campbell= 2% at Long Mountain Magisterial District, May 30, 1979. Collected by D. Barnes, determined by V.E. Montgomery. (J.L. Garner).

A EULOPHID WASP (Tetrastichus julis) - VIRGINIA - New county records. District> County= percent parasitism of Oulema melanopus (cereal leaf beetle) larvae in oats: SE> Mecklenburg= 11% near Chase City, May 25, 1979, collected by W. Whitehead; C> Appomattox= 11% near Evergreen, May 29, collected by J. Smut; Campbell= 6% at Long Mountain Magisterial District, May 30, collected by D. Barnes, and S> Halifax= 18% at Black Walnut Magisterial District, by D. Barnes, May 31. All determined by V.E. Montgomery. (J.L. Garner).

WESTERN YELLOWJACKET (Vespula pensylvanica) - WASHINGTON - District> County= status November 6: SE> Whitman= reproductives still flying in Pullman area and C> Benton= workers flying in Prosser area. This amount of activity highly unusual this late in year. (R. Akre).

A SARCOPHAGID FLY (Blaesoxipha kellyi) - IDAHO - District> County= status: SW> Ada= adult emerged October 30 at Boise, 1 month after full-grown larvae emerged from parasitized grasshopper. (R.C. Saunders).

FEDERAL AND STATE PROGRAMS

INSECTS

CEREAL LEAF BEETLE (Oulema melanopus) - TENNESSEE - New county records. District> County= collection data from wheat: Western Rim> Cheatham= 1.6 km north of Pleasant View on U.S. Alternate 41, Montgomery= 8 km south of Clarksville on U.S. Alternate 41. Both collected May 22, 1979, by M.E. Cooper, determined by M.E. Cooper. East Tennessee> Washington= 8 km from Jonesboro on old State Highway 81, May 15, 1979. Collected and determined by T.L. Bruce. (M.E. Cooper, J.R. White).

GRASSHOPPERS - NEW MEXICO - District> County= status week ending November 2: SE> Eddy= stripped much of foliage from weeds and saltcedar plants growing in river bottom 8 km southeast of Artesia. Growers in this area reported many eggs on field margins, ditchbanks, and other areas. (M. Perry). OKLAHOMA - New county record for LUBBER GRASSHOPPER (Brachystola magna). District> County= collection data: WC> Blaine= specimen taken in pasture 10 km east of Watonga, September 5, 1979, collected and determined by D.C. Arnold. (D.C. Arnold).

GYPSY MOTH (Lymantria dispar) - WEST VIRGINIA - District> County= status week ending November 9: E> Jefferson= scouting for egg masses around 1979 male moth catch site negative. (A.R. Miller). MICHIGAN - First find in county. District> County= collection data from pheromone traps: WC> Lake= 1 adult collected in Cherry Valley Township and Muskegon= 1 adult collected October 15, 1979, by E. Thompson, determined by R.S. Taylor. (M. Hanna).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= status week ending November 2: C> Maricopa= no larvae in 50 bolls; pheromone trap catches per trap per night: Maricopa= adults 3-47; week ending November 9: C> Maricopa= adults 0-28 per trap per night (C. Chandler et al.); week ending November 16: SE> Pima= many larvae in cotton gin lint cleaners and SW> Yuma= adults 0-16 per pheromone trap per night (P. Gomez et al.); week ending November 23: C> Pinal= 68-72% of bolls infested in some fields at Tucson (R. Eiland). Pheromone trap counts per trap per night: C> Eastern Maricopa= 31-44 and SW> Yuma= 3-26. (A. DeLellis, C. Mullis).

NEW MEXICO - District> County= pink bollworm larval status November 13-16: SE> Eddy= 1 on lint cleaner at Malaga and 8 per lint cleaner in gin at Otis. (M. Perry). No larvae or damaged bolls detected in cotton surveyed in Hidalgo and Luna Counties week ending November 16. District> County= row meters checked: SW> Hidalgo= 2,000 at Virden Valley, 2,500 at Cotton City and Animas, 200 at Rodeo and Luna= 1,000 at Columbus and 3,000 at Deming. No larvae on lint cleaners at Cotton City, Columbus, and Deming. Three larvae observed November 6 on glass of lint cleaners at Virden Valley gin. First larva reported November 3. (G. Nielsen).

SCREWWORM (Cochliomyia hominivorax) - Four cases reported from continental United States October 14 to November 10 in Arizona. Total of 445 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 1,337 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 176,832,300 as follows: Texas 58,098,900; New Mexico 19,666,600; Arizona 81,316,000; and California 17,750,800. Total of 1,532,402,341 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

WEEDS

WITCHWEED (Striga asiatica) - SOUTH CAROLINA - District> County= status as of October 29: S> Berkeley, C> Clarendon, Richland, Sumter, Lee, E> Georgetown, Williamsburg, NC> Kershaw, and Lancaster= biometrically designed survey showed no new infestations. These counties adjacent to infested counties. Detection and delimiting survey in infested counties revealed 5 new infested farms. (W.B. Lott).

General Vegetables - Foliar damage by LEAFMINER FLIES (Liriomyza spp.) moderate to heavy on 0.4 ha of bell pepper at Kapahi and on 0.10 ha each of tomato and cucumber at Anahola, Kauai, week ending November 2. TOMATO PINWORM (Keiferia lycopersicella) larvae heavy, up to 15 per leaf, on 0.8 ha of eggplant at Anahola. (L.M. Nakahara, D. Melendez), and infestations heavy on 0.20 ha of abandoned greenhouse tomato at South Kona, Hawaii Island, week ending November 23. (S. Matayoshi et al.). CARMINE SPIDER MITE (Tetranychus cinnabarinus) moderate to heavy on 1.72 ha of eggplant at Hana, Maui, and at Kapahi and Anahola, Kauai Island. (N. Miyahira et al.). SWEETPOTATO HORNWORM (Agrius cingulatus) infestations moderate to heavy on 0.30 ha of sweetpotato at 229-m elevation at Kalaheo, Kauai, week ending November 9. Foliar damage generally moderate, heavy in spots (100% defoliation). Larvae about 3 per 0.09 sq m in 6-week-old planting. (D. Ikehara). GREENHOUSE WHITEFLY (Trialeurodes vaporariorum) light to heavy on 0.30 ha of greenhouse tomato at Kalopa, Hawaii Island, week ending November 23. (S. Matayoshi, W. Shishido).

Ornamentals - Survey on Maui, September 13, showed a WHITEFLY (Aleurodicus dispersus) to infest sea grape, mango, areca palm, false kamani, true kamani, and plumeria trees on 8.5 ha at Kahului, first found at Kahului, June 19, 1979. Continued to increase and disperse on various host plants on Oahu week ending November 16. Infestations detected at Hauula, Punaluu, Laie, Kahuku, and Haleiwa on sea grape, false kamani, coconut, and hau for new locality records on Oahu. Light to moderate on several guava trees at Puu Ualakaa State Park at 319.4-m elevation, highest elevation whitefly observed in Hawaii. Although 7 predators (found locally in Hawaii) have been found preying on this whitefly on Oahu, none able to control whitefly problem to date. Nephaspis amnicola (a lady beetle) released on October 12, 1979, to aid in A. dispersus population control. (L.M. Nakahara).

Man and Animals - Many WESTERN YELLOWJACKET (Vespula pensylvanica) adults foraging on inflorescence of pineapples in fields near Lanai City, Lanai, week ending November 2. New locality record for Maui Island: One male caught recently at Haliimaile at 335.3-m elevation. (G. Taniguchi et al.).

Snail Pest - GIANT AFRICAN SNAIL (Achatina fulica) markedly increased over most of Kauai in October following heavy rains. Infestations confirmed established from Kekaha to Haena week ending November 9. (D.T. Sugawa).

LIGHT TRAP COLLECTIONS

CALIFORNIA - Manteca, 11/19, temp. 0-17°C, BL - ARMYWORM (Pseudaletia unipuncta) 3. FLORIDA - Gainesville, 11/15-20, BL - Armyworm 2, BLACK CUTWORM (Agrotis ipsilon) 3, FALL ARMYWORM (Spodoptera frugiperda) 4, GRANULATE CUTWORM (Feltia subterranea) 5. TEXAS - College Station, 11/8-19, BL - Armyworm 45, black cutworm 2, CABBAGE LOOPER (Trichoplusia ni) 0, CORN EARWORM (Heliothis zea) 0, Fall armyworm 1, SALTMARSH CATERPILLAR (Estigmene acrea) 0, TOBACCO BUDWORM (H. virescens) 0, TOBACCO HORNWORM (Manduca sexta) 0, TOMATO HORNWORM (Manduca quinquemaculata) 0, YELLOWSTRIPED ARMYWORM (Spodoptera ornithogalli) 0.

DETECTION

NEW STATE RECORDS

DISEASES

AN INSECT FUNGUS (Entomophthora phytonomi) - MICHIGAN - Berrien County; PENNSYLVANIA - Chester County; DELAWARE - New Castle County; NEW JERSEY - Burlington County. (p. 822).

CORN GRAY LEAF SPOT (Cercospora zeae-maydis) - OHIO - Pickaway County. (p. 809-810).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ILLINOIS - Madison County. (p. 821).

INSECTS

AN APHID (Brachycolus asparagi) - MISSOURI - Gasconade County. (p. 819).

AN APHID (Braggia uncompahgrensis) - UTAH - District> County= collection data from Eriogonum sp.: E> Uintah= collected south of Bonanza, September 10, 1976, by G.F. Knowlton and G.E. Bohart, determined by C.F. Smith. (G.F. Knowlton).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - MISSOURI - Platte County. (p. 816).

A CECIDOMYIID MIDGE (Dasineura gleditchiae) - OREGON - Umatilla County. (p. 822).

A LEAFHOPPER (Psammotettix emarginatus) - CALIFORNIA - District> County= collection data from malaise trap in native brushland: Siskiyou-Shasta> Siskiyou= collected at Etna during October 1978 by F.D. Horn, determined by R. Gill. (C.S. Papp).

NEW COUNTY RECORDS

DISEASES

BARLEY ROOT-KNOT NEMATODE (Meloidogyne naasi) - CALIFORNIA - Lake, Colusa, and Mendocino. (p. 812).

CORN GRAY LEAF SPOT (Cercospora zeae-maydis) - OHIO - Ross, Pike, and Scioto. (p. 809-810).

AN INSECT FUNGUS (Entomophthora phytonomi) - NEW JERSEY - Warren. (p. 822).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ARKANSAS - Washington, Greene, and Benton; MISSOURI - Jefferson; ILLINOIS - Pope. (p. 821).

SOYBEAN CYST NEMATODE (Heterodera glycines) - MINNESOTA - Brown, Waseca, Cottonwood, and Kandiyohi. (p. 817).

TAKE-ALL (Gaeumannomyces graminis var. tritici) - MINNESOTA - Dakota. (p. 812).

INSECTS

AN APHID (Calaphis betulella) - OKLAHOMA - McCurtain. (p. 822).

BANDED CUCUMBER BEETLE (Diabrotica balteata) - TEXAS - Medina. (p. 812).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - OKLAHOMA - Kingfisher, Canadian, Logan, and Hughes. (p. 816).

CEREAL LEAF BEETLE (Oulema melanopus) - TENNESSEE - Cheatham, Montgomery, and Washington. (p. 823).

A CHRYSOMELID BEETLE (Altica foliacea) - TEXAS - Bexar and Karnes. (p. 812).

A CHRYSOMELID BEETLE (Disonycha glabrata) - TEXAS - Bexar (p. 812), Guadalupe and Karnes (p. 819).

A CIMICID BUG (Hesperocimex coloradensis) - NEVADA - Ormsby. (p. 822).

A DIASPIDID SCALE (Aonidomytilus solidaginis) - FLORIDA - De Soto. (p. 820).

A EULOPHID WASP (Tetrastichus julis) - VIRGINIA - Mecklenburg, Appomattox, Campbell, and Halifax. (p. 823).

EUROPEAN GRAIN MOTH (Nemapogon granella) - TENNESSEE - Lawrence. (p. 819).

EUROPEAN HORNET (Vespa crabro germana) - KENTUCKY - District> County= collection data from blacklight trap: E> Breathitt= collected in Robinson Forest, September 20, 1979, by D. Back, determined by P.E. Sloderbeck. (P.E. Sloderbeck).

FERN SCALE (Pinnaspis aspidistrae) - FLORIDA - Santa Rosa. (p. 820).

GRAPE COLASPIS (Colaspis brunnea) - TEXAS - Nueces. (p. 812).

AN ICHNEUMONID WASP (Diaparsis n.sp.) - VIRGINIA - Campbell. (p. 823).

IMPORTED LONGHORNED WEEVIL (Calomycterus setarius) - IOWA - Henry and Poweshiek. (p. 820).

LUBBER GRASSHOPPER (Brachystola magna) - OKLAHOMA - Blaine. (p. 824).

A LYGAEID BUG (Lygaeospilus tripunctatus) - FLORIDA - District> County= collection data from Erigeron sp. (a fleabane): C> Gilchrist= immatures and adults infested blooms near Fanning Springs, June 1, 1979, collected by D. Culbert, determined by R.I. Sailer. Plants growing in wild. (D. Culbert).

POTATO STEM BORER (Hydroecia micacea) - NEW YORK - District> County= collection data from curly dock: W> Wayne= late instar larvae collected at Huron, July 5, 1979, by H. Willson and C. Smith, determined by H. Willson and J. Franclemont. H. Willson).

A SOFT SCALE (Pulvinaria mesembryanthemi) - CALIFORNIA - Los Angeles. (p. 821).

TEXAS LEAFCUTTING ANT (Atta texana) - TEXAS - Dimmit. (p. 820).

A WALKINGSTICK (Diapheromera persimilis) - OKLAHOMA - District> County= collection data: NC> Major= collected sweeping pasture 8 km southwest of Ames, September 11, 1979, and NE> Pawnee= collected sweeping roadside 10 km west of Cleveland, September 12. Both collected and determined by D.C. Arnold. (D.C. Arnold).

A WEEVIL (Rhinocyllus conicus) - KENTUCKY - District> County= collection data from Carduus nutans (musk thistle): Midwestern> Logan= eggs and larvae collected in rural area near Auburn and C> Warren= in rural area near Bowling Green. Both collected May 29, 1979, by P.E. Sloderbeck, determined by P.E. Sloderbeck. (P.E. Sloderbeck).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - ILLINOIS - Pope (p. 812); TEXAS- Bexar, Guadalupe, and Wilson. (p. 812).

WOOLLY WHITEFLY (Aleurothrixus floccosus) - CALIFORNIA - Kern. (p. 820).

SLUGS AND SNAILS

A HELICID SNAIL (Helix aperta) - CALIFORNIA - District> County= collection data: Central Coast> Contra Costa= collected at Point Isabel, Richmond, March 30, 1979, by S. Bunnell, determined by B. Roth. (C.S. Papp).

OTHER NEW RECORDS

CANADA THISTLE (Cirsium arvense) - CALIFORNIA - New township record. District> County= status: Sierra Mountains> Inyo= 2 new locations west of Bishop, July 17, 1979, reported by G. Milovich. (C.S. Papp).

GYPSY MOTH (Lymantria dispar) - MICHIGAN - First male find in Lake County. (p. 824).

CORRECTIONS

CPPR 4(1):1, 5, and 11 - A POWDERY MILDEW (Sphaerotheca fuliginea) - CALIFORNIA - See page 819 of this issue.

CPPR 4(38):742 - EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH DAKOTA - At top of page, 1979 counts for larvae in Richland County should average "132" and range "0-432" and in Sargent County should average "134."

CPPR 4(40):784 - BOLL WEEVIL (Anthonomus grandis grandis) - SOUTH CAROLINA - In chart under the headings "Mean per trap" and "Total taken" for Florence, Dillon, and Darlington Counties, figures going across should read "13 and 135, 25 and 2,981, and 12 and 589." (M.E. Gilreath).

CPPR 4(41):799 - BLUE ALFALFA APHID (Acyrthosiphon kondoi) - KANSAS - Counts per 100 sweeps should read "counts per 10 sweeps." (K.O. Bell, Jr.).

CPPR 4(41):799 - PEA APHID (Acyrthosiphon pisum) - KANSAS - Counts per 100 sweeps should read "counts per 10 sweeps." (K.O. Bell, Jr.).

CPPR 4(41):799 - SPOTTED ALFALFA APHID (Therioaphis maculata) - KANSAS - Counts per 100 sweeps of alfalfa ... should read "counts per 10 sweeps of alfalfa ..." (K.O. Bell, Jr.).

CPPR 4(41):800 - BOLL WEEVIL (Anthonomus grandis grandis) - SOUTH CAROLINA - District> County ... Florence= 2-56 (37) and 331; Darlington= 0-232 (21) and 971; Dillon= 0-304 (37) and 3,962; and Marlboro= 0-508 (41) and 11,746. (M. Alexander et al.)." should read District> County ... Florence= 2-56 (28) and 284; Darlington= 0-232 (21) and 972; Dillon= 0-304 (37) and 4,108; and Marlboro= 0-508 (41) and 11,748.... (M.E. Gilreath)."

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Destination
Phakopsora pachyrhizi Syd. soybean rust Det. F.G. Pollack	uredial	on leaves of Phaseolus from baggage	Dominican Republic	Kennedy Airport	NY
Aonidomytilus sp. a diaspidid scale Det. S. Nakahara	adult	on leaves of Tillandsia plants from cargo	Argentina	Los Angeles	CA
Dacus sp. a tephritid fly Det. R.H. Foote	larval	in cucumbers from stores	unknown	Bangor	CA
Pityogenes bidentatus (Herbst) a scolytid beetle Det. J.M. Kingsolver	adult	in wood crates of nuts and bolts	Poland	Savannah	--
Rhizoecus dianthi Green a mealybug Det. S. Nakahara	adult	with Sedum plants from baggage	Portugal	Boston	MA
Tomicus piniperda (Linnaeus) a scolytid beetle Det. F. Krim	adult	in dunnage	West Germany	New York	NY
Vinsonia stellifera (Westwood) star scale Det. R. Stewart	adult	on leaves of Broughtonia plants from baggage	Jamaica	Miami	FL

This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

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Correspondence should be directed to:

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New Pest Detection and Survey Staff
Plant Protection and Quarantine Programs
Animal and Plant Health Inspection Service
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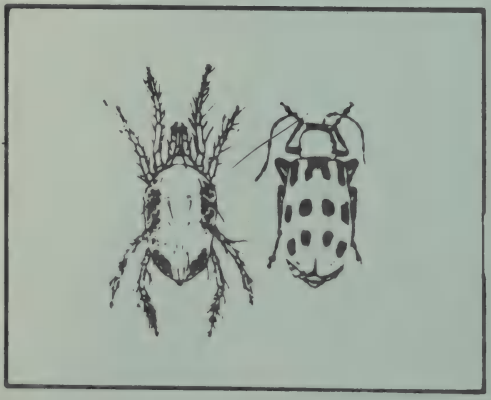
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December 1979

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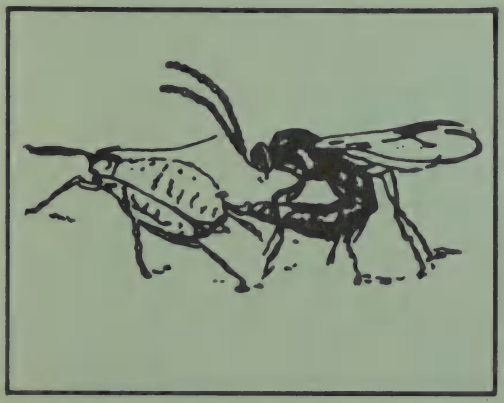
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COOPERATIVE PLANT PEST REPORT

HIGHLIGHTS

Current Conditions

EUROPEAN CORN BORER survey completed in Missouri. (p. 834-835).

Results of HESSIAN FLY survey in spring wheat in Oklahoma and in winter wheat in Kansas. (p. 836-837).

GREENBUG up to 100 or more per 0.3 row m of wheat in parts of west-central and panhandle areas of Oklahoma. (p. 837).

Prediction

Potential for CORN ROOTWORM larval and adult problems high in major corn areas of Wisconsin. (p. 835-836).

GRASSHOPPERS most likely to be severe on rangeland in parts of southwest, south-central, and west-central districts of Kansas in 1980. "Hotspots" expected on weedy roadsides and other waste areas in cropland. Economic damage to rangeland in Nebraska could continue in 1980. Weather and other factors could change populations sharply in either State. (p. 845-846).

Detection

● An undescribed species of a PHALACRID BEETLE feeding on ERGOT in Michigan. (p. 844).

New State records include CRAZY TOP in North Dakota (p. 834), YELLOW SUGARCANE APHID in Nebraska (p. 836), THREAD BLIGHT in Kentucky (p. 841), PINEWOOD NEMATODE in Louisiana, BLACK POPLAR SHOOT BLIGHT in California, a CERAMBYCID BEETLE in Oklahoma, INTRODUCED PINE SAWFLY in Iowa (p. 842), EUROPEAN HOUSE DUST MITE in North Dakota (p. 843), a LADY BEETLE in Pennsylvania (p. 844), GYPSY MOTH in West Virginia (p. 846), an APHID in Utah, and a MIRID BUG in Delaware and Maryland (p. 848).

New county and island records on pages 849-850.

Some First Occurrences of the Season

ARMY CUTWORM larvae, ALFALFA WEEVIL eggs, WINTER TICK, and BLACKLEGGED TICK in Oklahoma.

Reports in this issue are for the weeks ending November 23 through December 21 unless otherwise indicated.

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DISEASES

STALK ROTS (Gibberella (Fusarium) spp.) - NEBRASKA - Corn with stalk rot symptoms frequently found with EUROPEAN CORN BORER (Ostrinia nubilalis) damage. Survey of commercial corn [full maturity] fields October 21 to November 3 (S. Poe):

District> County	Prevalence (%) Range	Average	Number of Fields
NE> Burt	24-30	28	3
NE> Dakota	20-34	26	3
NE> Dixon	12-28	20	2
NE> Cedar	20-34	28	3
NE> Pierce	39-54	46	3
NE> Madison	37-43	40	2
E> Dodge	41-58	48	3
E> Platte	36-45	42	3
E> Colfax	31-47	38	2
E> Butler	28-51	40	3

SOUTHERN RUST (Puccinia polysora) - KANSAS - New county records collected from Zea mays (corn) in 1979. All determined by T. Sim, IV. Some fields surveyed after harvest by examining residue thus making prevalence impossible to determine. (T. Sim, IV).

District> County	Prevalence (%)	Severity (%)	City	Date	Collector
SC> Kiowa	trace	trace to 5	Greensburg	Oct 1	G.A. Salsbury
SC> Pawnee	trace	trace to 5	Sanford	Oct 1	G.A. Salsbury
SC> Stafford	30	trace to 5	St. John	Oct 1	G.A. Salsbury
SC> Pratt	trace	trace	Hopewell	Oct 2	G.A. Salsbury
SC> Sedgwick	-	-	Mount Hope	Oct 2	G.A. Salsbury
SC> Edwards	-	-	Felsburg	Oct 2	G.A. Salsbury
SC> Harvey	no data	no data	Halstead	Oct 3	G.A. Salsbury
SC> Reno	-	-	Yoder	Oct 24	G.A. Salsbury
SE> Neosho	75-100	trace to 25	Chanaute	Oct 2	S.C. White
SE> Cherokee	100	10	Columbus	Oct 2	S.C. White
SE> Greenwood	-	-	Madison	Oct 3	B.D. Hilbert
SE> Butler	100	60	Whitewater	Oct 3	G.A. Salsbury
EC> Wabaunsee	100	25	Maple Hill	Oct 2	B.D. Hilbert
EC> Geary	20-40	10-25	Junction City	Oct 2	B.D. Hilbert
EC> Chase	80	25	Clements	Oct 2	B.D. Hilbert
EC> Morris	80-100	10	Council Grove	Oct 2	B.D. Hilbert
EC> Anderson	trace to 50	trace to 5	Garnett	Oct 2	S.C. White
EC> Lyon	100	25-40	Americus	Oct 3	B.D. Hilbert
EC> Coffey	90	25	Le Roy	Oct 3	B.D. Hilbert
EC> Osage	70-100	10-40	Lynden	Oct 3	B.D. Hilbert
EC> Johnson	20-100	5-10	Spring Hill	Oct 8	S.C. White
EC> Miami	50-100	10-50	Henson	Oct 8	S.C. White
EC> Linn	-	-	Trading Post	Oct 8	S.C. White
EC> Franklin	trace to 100	5-10	Ceutropolis	Oct 8	S.C. White
EC> Douglas	trace	trace	Baldwin City	Oct 8	S.C. White

District> County	Prevalence (%)	Severity (%)	City	Date	Collector
C> Barton	trace	trace to 5	Great Bend	Oct 1	G.A. Salsbury
C> McPherson	100	25-40	Inman	Oct 2	G.A. Salsbury
C> Dickinson	100	25	Detroit	Oct 2	B.D. Hilbert
C> Saline	90-95	25	Kipp	Oct 2	B.D. Hilbert
C> Marion	10-100	10-25	Ramona	Oct 2	B.D. Hilbert
C> Rush	trace to 50	trace to 5	Nekoma	Oct 4	T. Sim, IV
NE> Jackson	100	25-40	Denison	Oct 3	B.D. Hilbert
NC> Mitchell	trace	trace	Beloit	Oct 2	T. Sim, IV
NC> Smith	100	trace	Gaylord	Oct 2	T. Sim, IV
NC> Osborne	10	trace	Alton	Oct 2	T. Sim, IV
NC> Rooks	20	trace to 5	Woodston	Oct 2	T. Sim, IV
NC> Phillips	90	10	Long Island	Oct 2	T. Sim, IV
NW> Graham	trace	trace	Hill City	Oct 2	T. Sim, IV
NW> Norton	50	trace	Almena	Oct 2	T. Sim, IV
NW> Decatur	25	trace	Oberlia	Oct 2	T. Sim, IV
NW> Sheridan	10	trace	Leoville	Oct 2	T. Sim, IV
NW> Thomas	trace to 50	trace	Meub	Oct 2	T. Sim, IV
NW> Cheyenne	trace	trace	Bird City	Oct 2	T. Sim, IV

SORGHUM DOWNY MILDEW (Peronosclerospora sorghi) - KANSAS - New county records. All collected on sorghum in 1979. Collected and determined by T. Sim, IV. Sorghum in Osborne County volunteered in corn field, corn not affected. (T. Sim, IV).

District> County	Prevalence	Severity	Host stage	Nearest city	Collection date
NE> Marshall	trace	-	flowering	Frankfort	Aug 13
SC> Reno	10%	moderate	flowering	Buhler	Aug 14
NC> Osborne	-	-	-	Alton	Aug 15

ANTHRACNOSE STALK ROT (Colletotrichum graminicola) - WISCONSIN - District> County= status: SW> Grant= rapid, late season development in some fields again in 1979 caused some grower concern week ending November 30; Lafayette, Grant, Iowa, Sauk, Richland, Vernon, WC> La Crosse, NC> Clark, SC> Dane, Dodge, Jefferson, and SE> Walworth= associated with stalk rot in past 3 years. Disease minor in most field corn, made up 2% of stalk rot organisms in 1977 and 3% in 1978 in laboratory screenings of samples. (O.L. Lovett).

CRAZY TOP (Sclerophthora macrospora) - NORTH DAKOTA - New State record. District> County= collection data from Zea mays (corn): EC> Cass= at Fargo, August 10, 1978, collected and determined by V.L. Jons. (V.L. Jons).

INSECTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - MISSOURI - Results of 1979 fall abundance survey (R.E. Munson):

District	Average per 100 corn plants	Average plants infested (%)	District	Average per 100 corn plants	Average plants infested (%)
NW	152.56	80.96	C	118.48	72.32
NC	130.56	73.44	E	130.0	74.88
NE	152.32	73.92	SW	95.04	61.76
W	174.48	82.88	SW	145.76	80.0

MICHIGAN - District> County= European corn borer on corn week of December 19: SW> Allegan= third generation larvae in ear tips. (R. Ruppel).

FALL ARMYWORM (Spodoptera frugiperda) - FLORIDA - District> County= status week of December 12: C> St. Johns= 40 males caught in pheromone trap at Hastings, last corn crop in area about 2 months ago. (R.B. Workman).

CORN ROOTWORMS (Diabrotica spp.) - NORTH DAKOTA - New county record for WESTERN CORN ROOTWORM (D. virgifera). District> County= collection data from Zea mays (sweet corn): WC> Dunn= adult near Killdeer, September 1, 1979, collected and determined by W.J. Brandvik. (W.J. Brandvik).

MISSOURI - D. virgifera and NORTHERN CORN ROOTWORM (D. longicornis) adult survey of corn in early August in 3 northern districts; counts too light in southern districts to justify survey (M.E. Roof et al.):

District> County	Adults per plant	Range	District> County	Adults per plant	Range
NW> Andrew	1.01	0-2.3	NC> Linn	0.36	0-1.10
NW> Atchison	2.03	0.04-5.80	NC> Macon	0.47	0-0.88
NW> Buchanan	0.80	0.16-1.80	NC> Randolph	0.21	0-0.76
NW> Caldwell	0.86	0-2.50	Average	0.60	
NW> Holt	1.83	0.04-3.40	NE> Audrain	0.63	0-0.80
NW> Nodaway	1.92	0.05-4.10	NE> Clark	0.86	0-1.60
NW> Ray	2.14	0.03-6.00	NE> Knox	0.60	0-2.20
Average	1.51		NE> Lewis	0.70	0.04-0.52
NC> Adair	0.66	0-1.60	NE> Marion	0.42	0-0.86
NC> Carroll	1.52	0.04-3.10	NE> Pike	0.66	0-1.84
NC> Chariton	0.43	0.04-2.84	NE> Ralls	0.38	0-1.40
NC> Grundy	0.54	0-1.60	Average	0.425	

ILLINOIS - New county records for D. virgifera. District> County= collection data from Zea mays (corn): SE> White= south of Crossville, July 16, 1979, collected and determined by K. Black; and Hamilton= near McLeansboro, August 2, by C. Bremer and D. Brown, determined by K. Black. (K. Black).

WISCONSIN - Diabrotica spp. egg samples collected in late September and early October showed 60% increase over 1978 population. Total of 15 soil cores of 5.4-cm diameter and 10-cm depth taken from base of corn plants and processed by flotation and sieves. Based on 8 years of data and experience, potential for larval and adult problems will be high in major corn areas, particularly areas with loam and clay soils.

District	Egg averages per 0.47 L of soil 1978	1979
NW	1.66	1.69
NC	0.40	0.00
NE	1.13	1.80
WC	11.50	9.93
C	6.05	4.00
EC	6.97	15.14
SW	6.83	10.10
SC	3.95	10.04
SE	6.20	8.25
Average	5.82	9.14

Wisconsin - Breakdown by soil yielded additional data and insight into Diabrotica spp. egg-laying habits. Observations in muck limited to 4 or fewer fields in both years. (O.L. Lovett).

Soil	Eggs per 0.47 L of soil 1977	1979
Clay	13.3	11.0
Loam	13.5	10.7
Sandy loam	5.7	5.3
Sand	1.1	0.9
Muck	6.0	10.0

YELLOW SUGARCANE APHID (Sipha flava) - NEBRASKA - New State record. District> County= collection data from Sorghum bicolor (sorghum): SE> Pawnee= 2 winged aphids from 100 plants near Steinauer, June 15, 1979, and 4 wingless aphids from 200 plants in same field June 20, by T.P. Miller, determined by W.S. Craig. (T.P. Miller).

SMALL GRAINS

DISEASES

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - KANSAS - New county records. District> County= collection data from wheat June 6, 1979: NW> Sheridan= trace in 1 field at Hoxie; Cheyenne= trace in 2 fields at Bird City. Both collected and determined by T. Sim, IV. (T. Sim, IV).

INSECTS

ARMY CUTWORM (Euxoa auxiliaris) - OKLAHOMA - First of season. District> County= status on wheat week ending December 7: NC> Kay and Noble= occasional small larva found. (D.C. Arnold).

HESSIAN FLY (Mayetiola destructor) - OKLAHOMA - District> County= percent of wheat stems infested (samples collected before harvest in spring 1979) in number of fields (f) infested of those sampled: C> Payne= 4% in 4 of 5f, Cleveland= 0.5% in 1 of 4f, Lincoln= 0.5% in 1 of 5f, Logan= 2.5% in 3 of 5f, McClain= 0.5% in 1 of 5f, Pottawatomie= 2.8% in 2 of 5f, Creek= 7.5% in 3 of 4f, NC> Kay= 1.2% in 2 of 5f, Noble= 1.2% in 2 of 5f, NE> Pawnee= 11.3% in 5 of 6f, Craig= 1.3% in 2 of 6f, Mayes= 5.5% in 3 of 4f, Nowata= 16.8% in 4 of 5f, Rogers= 3.7% in 5 of 7f, Tulsa= 4% in 2 of 5f, Washington= 9.6% in 5 of 5f, EC>

Okmulgee= 0.5% in 1 of 4f, Pittsburg= 0.8% in 1 of 5f, SC> Carter= 16.8% in 4 of 5f, Garvin= 0.8% in 2 of 5f, Johnston= 6% in 3 of 5f, Marshall= 2% in 3 of 5f, NC> Alfalfa, Major, Woods, Grant, Garfield, C> Okfuskee, NE> Wagoner, EC> Haskell, Hughes, Muskogee, SC> Love, Murray, and Pontotoc= 0 of 55f. Infested stems averaged 3% (8.6% in 1978) for all fields. Puparia averaged 9.5 (17.9 in 1978) per 100 stems in 36% of fields sampled (61% in 1978). (D.C. Arnold).

KANSAS - District> County= Hessian fly status on wheat November 27: NE> Pottawatomie= larvae mostly near full grown but some still very small in volunteer wheat field. Sampled 10 locations per field. First line volunteer wheat; others, seeded wheat. (K.O. Bell, Jr).

Number per 100 tillers		Tillers	Average tillers	Total tillers
larvae	puparia	infested (%)	per plant	checked
5.3	3.4	3.7	3.4	323
0.4	0	0.4	5.2	248
1.7	1.7	3.0	5.3	233

WHEAT STEM MAGGOT (Meromyza americana) - KANSAS - District> County= status on wheat November 27: NE> Pottawatomie= only larvae nearing full growth and old damage noted, nearly always destroyed growing points of tillers, 10 locations per field sampled. First line volunteer wheat; others, seeded wheat. (K.O. Bell, Jr.).

Tillers infested (%)		Average tillers	Total tillers
larvae	old damage	per plant	checked
2.1	3.4	3.4	323
0	0	5.2	248
0	0	5.3	233

GREENBUG (Schizaphis graminum) - OKLAHOMA - District> County= status on wheat [seedling] week ending November 30: C> Kingfisher and NC> Alfalfa= 5-50 per plant caused damage, Garfield= damage in some areas, Grant, Kay, and Noble= damage in few areas. Few fields treated. About 30-40% of wheat in above counties still seedlings due to late planting or failure to emerge caused by dry weather during normal planting period. WC> Beckham, Custer, Washita, and SW> Caddo= light in almost all fields.

Oklahoma - District> County= greenbug counts per 0.3 row m of wheat in number of fields (f) week ending December 7: C> Grady= 0-20 in 9f (early planted) and up to 200 in 1f [15 cm tall] no damage, WC> Custer= up to 1,000 in 1f, Washita= 0-20 in most fields checked, up to 100 in 1f treated early, SW> Jackson= 0-5 in 7f (up to 20 or 30 week ending November 16 or 23), NC> Kay, Grant, Garfield, Noble, Alfalfa, Woods, and Major= 0-20 in about 50f. Lighter in north-central counties than counts week ending November 23. Panhandle> Texas= light.

Oklahoma - Greenbug week ending December 14: WC> Custer= up to 350 in 3f, about one-third as many present week ending December 7, Panhandle> Texas= up to 150 in 1f (irrigated), 0-10 in other fields checked in same area, SW> Jackson and Kiowa= 0-5 in 20f, and NC> Noble= scattered, light. Week ending December 21: SW> Kiowa= averaged 10 in 1f, WC> Washita= 45, 10, and 5 in 3f, Panhandle> Ellis= 0-5, NC> Major, Garfield, Kay, and Noble= averaged less than 1 in 20f. (D.C. Arnold).

AN APHID (Rhopalosiphum padi) - OKLAHOMA - District> County= status on wheat week ending November 30: WC> Beckham, Custer, Washita, and SW> Caddo= light in most fields. Counts per 0.3 row m of wheat in number of fields (f) week ending December 7: WC> Custer= up to 1,000 in 1f, Washita= 200-300 in 1f, and C> Grady= up to 600 in 1f, generally lighter in other fields checked in these counties, Panhandle> Texas= heavy in few fields, NC> Kay, Noble, Grant, Garfield, Alfalfa, Woods, and Major= 0-30 in about 50f. On rank irrigated wheat week ending December 14: Panhandle> Texas= 2,000-4,000 in 1f, 0-50 in other fields in same area, and WC> Custer= up to 350 in 3f. On wheat week ending December 21: Panhandle> Ellis= 1,000-2,000 in some areas, WC> Washita= up to 700 in 1f, NC> Major, Garfield, Kay, and Noble= averaged less than 1 in 20f. (D.C. Arnold).

KANSAS - District> County= R. padi status on wheat [host stage] November 27: NE> Pottawatomie= trace on volunteer wheat [3 tiller] in 1 field and on seeded wheat [5 tiller] in 2 early planted fields near Louisville. (K.O. Bell, Jr.).

WINTER GRAIN MITE (Penthaleus major) - OKLAHOMA - First of season. District> County= counts on wheat week ending November 30: SW> Kiowa= infestation moderate. Counts per 0.3 row m of wheat in 1 field each, week ending December 21: WC> Washita= 60 and SW> Kiowa= 5. (D.C. Arnold).

TURF, PASTURES, RANGELAND

INSECTS

GREENBUG (Schizaphis graminum) - KANSAS - District> County= status on bluegrass: EC> Johnson= samples collected from seriously damaged lawn in Prairie Village, August 31, 1979, by W.A. Hawkins, Jr., determined by M.B. Stoetzel. (J.W. Johnson).

A DIASPIDID SCALE (Aspidiella sacchari) - FLORIDA - New county records. District> County= collection data: S> Indian River= collected from stem of Eleusine indica (goosegrass) on park property near Vero Beach, October 29, 1979, by S. Beidler and G. Smith, determined by A.B. Hamon, grass on property 1+ years (S. Beidler); C> Sumter= adults collected on stems of Andropogon virginicus (broomsedge) plant along road near Center Hill, December 7, by W. Shirley and H. Morrison, determined by A.B. Hamon (W. Shirley, H. Morrison).

FORAGE LEGUMES

INSECTS

ALFALFA WEEVIL (Hypera postica) - OKLAHOMA - First of season. District> County= egg averages per 0.09 sq m of alfalfa: SC> Stephens= 6 newly laid by December 6, C> Payne by December 13, Grady and SC> Stephens by December 16= 12, 13, and 12, respectively, (65%) of eggs yellow (newly laid). (D.C. Arnold). KANSAS - District> County= adults per 100 sweeps of alfalfa [36 cm tall]: NE> Riley= averaged 3 in field November 19 (0.5 on October 25 and November 2), 22°C, lower 28-26 cm of plant not destroyed by cold weather, 0 from same field December 5, 11°C, lower 10 cm of plant still alive. (K.O. Bell, Jr.). INDIANA - District> eggs per 15-sq-cm square November 14-15: WC, SW, and SC> 0.9-10.5 (averaged 5.6) in 10 samples each, about 17-57% of eggs seemed infertile. (R.W. Meyer).

PEA APHID (Acyrthosiphon pisum) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending December 7: C> Pinal= 80-1,380, Maricopa= 10-1,000, and SW> Yuma= 3-180. (F. Brooks et al.); week ending December 14: C>

Maricopa= 104, Pinal= 36-121, and SW> Yuma= 40-200 (L. Lee et al.); and week ending December 21: C> Pinal= 136-460 and SW> Yuma= 80-400 (T. Svoboda et al.). KANSAS - District> County= averages per 10 sweeps of alfalfa [36 cm tall]: NE> Riley= 3 in 1 field November 19, 1 in same field December 5. About 10 cm of lower portion of plants still alive following temperatures near -10°C. (K.O. Bell, Jr.).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - OKLAHOMA - District> County= average per 100 sweeps of alfalfa: C> Payne= 2 on December 4 and December 13. (D.C. Arnold). NEBRASKA - New county records. District> County= collection data from alfalfa: SE> Gage= 8 collected near Cortland and E> Saunders= 2 collected near Mead, both collected June 18, 1979, by S. Huggenburger, determined by M.B. Stoetzel. (Manglitz).

SPOTTED ALFALFA APHID (Therioaphis maculata) - ARIZONA - District> County= adults per 100 sweeps of alfalfa week ending December 21: SW> Yuma= 100-320. (T. Svoboda et al.).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - District> County= adults per 100 sweeps of alfalfa week ending December 7: C> Pinal= 5-16, Maricopa= 12-27, and Yuma= 40-160. (F. Brooks et al.); week ending December 14: C> Pinal= 4-112. (L. Lee et al.).

CHINCH BUG (Blissus leucopterus leucopterus) - KANSAS - District> County= adult average per 100 sweeps of alfalfa November 19, 22°C: NE> Riley= 1 in 1 field. (K.O. Bell, Jr.).

LYGUS BUGS (Lygus spp.) - ARIZONA - District> County= nymphs and adults per 100 sweeps of alfalfa week ending December 21: SW> Yuma= 70-120. (T. Svoboda et al.).

SOYBEANS

INSECTS

GRAPE COLASPIS (Colaspis brunnea) - ARKANSAS - Survey for overwintering larvae in harvested soybean fields. Soil cores sampled (diameter 10 cm) from 12 random sites in each field and processed by wash/brine flotation technique. (M.A. Mayse).

District> County	Field number	Larvae per 12 cores at depth of 0-9 cm	9-18 cm	18-23 cm
Week ending Dec 7:				
EC> Lee	1	0	0	0
EC> Lee	2	1	2	2
EC> Lee	3	0	20	45
SE> Desha	1 through 6	0	0	0
SE> Desha	7	0	0	2
Week ending Dec 21:				
SE> Desha	1	0	0	0
EC> Arkansas	1	-	1	0

District> County	Field number	Larvae per 12 cores at depth of 0-9 cm	9-18 cm	18-23 cm
Week ending Dec 21:				
EC> Arkansas	2	-	14	8
EC> Arkansas	3	-	8	8
EC> Arkansas	4	-	19	11
EC> Arkansas	5	-	0	2
EC> Arkansas	6	-	0	0
EC> Arkansas	7	-	20	26

COTTON

INSECTS

BOLL WEEVIL (Anthonomus grandis grandis) - NEW MEXICO - No adults collected in Leggett traps in 1979. District> County= number of traps operated April 16 to June 29 and August 13 to November 2: SE> Lea= 75, Eddy= 125, and Dona Ana= 44. Traps placed near hibernation sites in spring and cotton fields in fall. (M. Perry, F. Smith).

MISCELLANEOUS FIELD CROPS

DISEASES

HEAD ROTS - WISCONSIN - District> County= prevalence on sunflowers in late October: NE> Langlade= RHIZOPUS HEAD ROT (Rhizopus spp.) trace to 89% in most fields, wet weather after flowering probably contributed to infection. SCLEROTINIA HEAD ROT (Sclerotinia sclerotiorum) in 19 of 19 fields. Prevalence 47%/severity 25% for these 2 diseases. (O.L. Lovett).

POTATOES, TOMATOES, PEPPERS

INSECTS

PEPPER WEEVIL (Anthonomus eugenii) - FLORIDA - District> County= status of this species and GREEN PEACH APHID (Myzus persicae) on Capsicum sp. (pepper) week of December 6: C> Polk= immatures and adults heavily infested nearly all 50 plants at Lake Wales, weevils worst problem. (W.M. Keen, R.R. Snell).

COLE CROPS

INSECTS

DIAMONDBACK MOTH (Plutella xylostella) - FLORIDA - District> Area= larval status on cabbage week ending November 9: C> St. Johns County throughout Hastings area, Flagler County from Bunnell to Molasses Junction and St. Johns County above Elkton to Putnam County, East Palatka= generally infested 809.4-1,619 ha, about 90% of infestation untreated. Populations should decrease with cool weather and increase in January and February. (R.B. Workman).

DECIDUOUS FRUITS AND NUTS

DISEASES

THREAD BLIGHT (Pellicularia koleroga) - KENTUCKY - New State record. District> County= collection data: E> Knox= observed on leaves of Malus sylvestris (apple), Rosa sp. (rose), Lonicera japonica (Japanese honeysuckle), and Viburnum sp. (a snowball viburnum) in large backyard orchard, rural nonfarm landscape near Barbourville, August 28, 1979, by W. Early. New county records. Martin= observed on leaves of apple and Cornus florida (flowering dogwood) in rural nonfarm landscape near Inez, September 7, by H. Sparks, and Johnson= observed on leaves of apple in commercial orchard near Paintsville, September 8, by J.R. Hartman. All determined by J.R. Hartman. First noticed in mid-August, disease problems continued through September, probably due to unusually heavy rainfall in August and September. (P.E. Sloderbeck).

INSECTS

A TORTRICID MOTH (Platynota idaeusalis) - NORTH CAROLINA - District> County= status in apple areas: Western Mountain> Henderson= population increase began in 1976, appears to have stabilized at about 5% loss from fresh market grades in this major apple area and Mitchell= infestations sporadic. No reports confirmed from other commercial apple counties. (T. Hunt).

WOOLLY APPLE APHID (Eriosoma lanigerum) - NEW MEXICO - Area> status week ending December 7: Southern one-half of State> still heavy on lower portions and roots of apple trees throughout area. (J. Durkin).

WINTER MOTH (Operophtera brumata) - OREGON - County= status in unmanaged filbert orchards. Washington= female emergence peaked substantially, 211 females on 6 sticky bands in Tigard area, November 22-23, emergence decreased week ending November 30 with decreasing temperatures. New county record. Yamhill= male collected with several Operophtera occidentalis (a geometrid moth) adults at night at Newberg (Springbrook area), November 23, 1979, by R.L. Penrose, determined by R.L. Westcott. (R.L. Penrose). Multnomah and Washington= adult males decreased sharply December 17-21 according to sticky band counts, Washington= males averaged 1-10 per tree band per night December 13-20 near Tigard. Catch lightest evening of December 19. (D. Kimberling, R.L. Penrose).

ORNAMENTALS

INSECTS

A DIASPIDID SCALE (Lepidosaphes pallida) - FLORIDA - New county record. District> County= collection data on Juniperus chinensis 'Procumbens' (juniper) plants: NW> Bay= infestation moderate on leaves of all 10 plants in nursery at Panama City, September 18, 1979, collected by D. Reese, determined by A.B. Hamon. Plants in area 1+ year. (D. Reese).

A DIASPIDID SCALE (Comstockiella sabalis) - FLORIDA - New county record. District> County= collection data from Livistona australis (cabbage palm): C> Sumter= adults moderately infested leaves at park at Center Hill, December 6, 1979, collected by W. Shirley and H. Morrison, determined by A.B. Hamon. (W. Shirley, H. Morrison).

EUROPEAN EARWIG (Forficula auricularia) - WISCONSIN - New county record. District> County= collection data (host unknown): SC> Rock= specimen collected from Lymantria dispar (Gypsy moth) trap near Beloit, September 12, 1979, by M.S. Conrad, determined by D.A. Nickle. (O.L. Lovett).

FOREST AND SHADE TREES

DISEASES

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - LOUISIANA - New State and parish records. District> Parish= collection data from Pinus elliottii (slash pine): EC> East Baton Rouge= collected at Baton Rouge, November 12, 1979, by R.C. Carlton, determined by W. Birchfield, confirmed by A.M. Golden and W. Friedman; and Livingston= at Denham Springs, November 30 by J.P. Dunkley, determined by W. Birchfield. (J.A. Turner). ILLINOIS - New county records. District> County= collection data from mature Pinus sylvestris (Scotch pine) trees that died summer 1979: NE> Du Page= in arboretum near Lisle, October 17, 1979, by J.E. Appleby; and SW> St. Clair= in windbreak planting around commercial nursery near Belleville, October 19, 1979, by W.B. Siefert; all determined by R.B. Malek. (E.G. Jordan).

BLACK POPLAR SHOOT BLIGHT (Venturia (Pollaccia) populina) - CALIFORNIA - New State record. District> County= collection data of Pollaccia elegans stage from Populus sp. (a cottonwood) tree: Central Coastal> Contra Costa= at Orinda, May 8, 1979, by V. Guise, determined by J. Smith. Field evidence indicates infection may have been present for 10-20 years. (C.S. Papp).

INSECTS

A CERAMBYCID BEETLE (Rhagium inquisitor) - OKLAHOMA - New State record. District> County= collection data from dead Pinus echinata (shortleaf pine): EC> Haskell= adult taken under bark of tree near Whitefield, November 7, 1979, by J.M. Christensen, determined by D.C. Arnold. (D.C. Arnold).

A BUPRESTID BEETLE (Chrysobothris texana) - KANSAS - District> County= collection data from Juniperus virginiana (eastern red cedar). SW> Clark= New State record, adults reared near Ashland, March 7, 1978, collected by G.E. Boutz, determined by W.F. Barr, damage serious in windbreak. (G.E. Boutz, J.W. Johnson). SC> Sedgwick= New county record, adults collected near Garden Plain, April 16, 1979, by L.C. Thompson, determined by W.F. Barr, damage serious. (L.C. Thompson et al.).

BLACK PINELEAF SCALE (Nuculaspis californica) - FLORIDA - New county record. District> County= collection data from Pinus sp. (a pine): C> Hillsborough= adults scattered on tree in park at Ruskin, September 10, 1979, collected by J. Felty and Z. Smith, determined by A.B. Hamon. Tree in park about 6-8 years. (J. Felty).

INTRODUCED PINE SAWFLY (Diprion similis) - IOWA - New State record. District> County= collection data from Pinus strobus (eastern white pine): NE> Fayette= collected feeding at Fayette, September 21, 1977, by D.J. Burkhart, determined by J.A. Mertins. (J.A. Mertins).

A NOCTUID MOTH (Lithophane laticinerea) - IOWA - New county record. District> County= collection data from Acer saccharinum (silver maple): C> Boone= defoliated trees at Boone along Des Moines River, June 19, 1979, collected by G. Silver, determined by D.R. Lewis. (D.R. Lewis).

GLOOMY SCALE (Melanaspis tenebricosa) - FLORIDA - New county record. District> County= collection data from Acer sp. (maple): S> De Soto= adults collected on bark of tree in woods near Arcadia, November 5, 1979, by Z. Smith and G. Smith, determined by A.B. Hamon. (Z. Smith, G. Smith).

OBSCURE SCALE (Melanaspis obscura) - FLORIDA - New county record. District> County= collection data from Quercus sp. (oak): S> De Soto= adults scattered on stems of tree in wild near Arcadia, November 8, 1979, collected by Z. Smith, determined by A.B. Hamon. (Z. Smith).

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - New county record. District> County= collection data from Liquidambar styraciflua (sweetgum): S> De Soto= infested leaves of plants in wild near Arcadia, November 5, 1979, collected by Z. Smith and G. Smith, determined by A.B. Hamon. (Z. Smith, G. Smith).

AN APHID (Lachnus salignus) - OKLAHOMA - New county record. District> County= collection data from Salix sp. (a willow): Panhandle> Texas= infestation moderate on tree at Guymon, June 20, 1979, collected by B. Massey, determined by D.C. Arnold. (D.C. Arnold).

MAN AND ANIMALS

INSECTS

HORN FLY (Haematobia irritans) - FLORIDA - District> County= average per head in dry dairy herd: C> Alachua= 48 November 28 and 44 December 15 near Archer. (D. Boyd).

COMMON CATTLE GRUB (Hypoderma lineatum) - OKLAHOMA - District> County= counts per back of calves week ending December 14: SE> Pushmataha= 4-5 in few calves. (D.C. Arnold).

WINTER TICK (Dermacentor albipictus) - OKLAHOMA - First of season. District> County= status week ending November 30: C> Payne= larvae active and seeking hosts in pastures in Lake Carl Blackwell area. Counts per head of cattle week ending December 14: EC> Pittsburg= 15-100 in 1 herd; beef cattle week ending December 21: EC> Okmulgee= 80-100 in 1 herd. (D.C. Arnold).

BLACKLEGGED TICK (Ixodes scapularis) - OKLAHOMA - First of season. District> County= status: EC> Muskogee= annoyed deer hunters in Greenleaf Lake area, October 29 to November 2. Still present in same area week ending November 30. (D.C. Arnold).

EUROPEAN HOUSE DUST MITE (Dermatophagoides pteronyssinus) - NORTH DAKOTA - New State record. District> County= collection data from sofa: EC> Griggs= about 2,000 mites collected in house trailer on farm near Cooperstown, August 29, 1977, by T. Maertens and A. Jamieson, determined by C.Y. Oseto. Sofa with trailer when purchased and located at farm site about 1967. This mite causes allergies in man. (C.G. Scholl).

BENEFICIAL ORGANISMS & THEIR ENEMIES

INSECTS

PUNCTUREVINE SEED WEEVIL (Microlarinus lareynii) - NEW MEXICO - District> County= status on Tribulus terrestris (puncturevine) week ending December 7:

SW> Luna= Microlarinus lareynii damaged 40-60% of vines along roadsides and borders of fields in Deming area. Recent freezing temperatures killed all larvae, pupae, and adults in seeds. (G.L. Nielsen).

A LADY BEETLE (Coccinella septempunctata septempunctata) - PENNSYLVANIA - New State record. District> County= collection data: EC> Pike= collected on produce farm at Bushkill, July 10, 1979, by J.J. Sporer, determined by E.J. Ford, Jr., confirmed by E.R. Hoebeke. (E.R. Hoebeke).

A PHALACRID BEETLE (Acylomus sp.) - MICHIGAN - Undescribed species of insect associated with ergot sclerotia detected in United States. District> County= collection data from Claviceps purpurea (ergot): SE> St. Clair= detected feeding on sclerotia at Memphis, October 9, 1979, by B.P. Singh, determined by W. Steiner. (B.P. Singh).

AN ICHNEUMONID WASP (Bathyplectes curculionis) - WISCONSIN - New county records. Collected from Hypera postica (alfalfa weevil) on alfalfa. (O.L. Lovett).

District> County	Average parasitism (%)	City	Date	Collector	Determiner
SW> Grant	8.6	No data	Spring '75	M.S. Conrad	R.W. Carlson
SW> Crawford	16.2	Gays Mills	Jun 13, '79	R.L. Norgren	M.S. Conrad
SW> Richland	1.8	Lone Rock	Jun 11, '79	O.L. Lovett	M.S. Conrad
SC> Green	20.5	No data	Spring '75	M.S. Conrad	R.W. Carlson
SC> Dane	20.5	No data	Spring '75	R.L. Norgren	R.W. Carlson
SC> Jefferson	55.5	Hebron	Jun 12, '79	E.W. Arnold	M.S. Conrad
SC> Columbia	41.3	Pardeeville	Jun '79	O.L. Lovett	M.S. Conrad
SC> Dodge	34.4	No data	Jun 25, '79	S. Saad	M.S. Conrad
SE> Walworth	36.8	Delavan	Jun 12, '79	S.B. Ferguson	M.S. Conrad
SE> Racine	41.6	Rochester	Jun 13, '79	S.B. Ferguson	M.S. Conrad
SE> Waukesha	40.0	Oconomowoc	Jun 12, '79	E.W. Arnold	M.S. Conrad
SE> Washington	29.6	No data	Jun 25, '79	S. Saad	M.S. Conrad
SE> Ozaukee	20.5	No data	Jun 22, '79	S. Saad	M.S. Conrad
C> Adams	13.6	Briggsville	Jun '79	O.L. Lovett	M.S. Conrad
C> Waushara	21.2	Hancock	Jun '79	O.L. Lovett	M.S. Conrad
EC> Fond du Lac	19.4	No data	Jun 21, '79	S. Saad	M.S. Conrad
EC> Sheboygan	5.6	Elkhart Lake	Jun 19, '79	E.W. Arnold	M.S. Conrad
EC> Manitowoc	22.7	Kellners Corners	Jun 19, '79	E.W. Arnold	M.S. Conrad
EC> Kewaunee	8.5	Casco	Jun 19, '79	E.W. Arnold	M.S. Conrad
EC> Door	11.2	No data	Spring '75	M.S. Conrad	R.W. Carlson
WC> Buffalo	7.9	No data	Jun '79	R. Larson	M.S. Conrad
WC> Trempealeau	29.4	No data	Jun '79	R. Larson	M.S. Conrad
WC> Pierce	26.8	No data	Jun '79	R. Larson	M.S. Conrad
WC> Dunn	21.5	No data	Jun '79	R. Larson	M.S. Conrad
WC> Eau Claire	43.6	No data	Spring '75	M.S. Conrad	R.W. Carlson
NC> Clark	90.0	No data	Jun 29, '79	D. Helgerson	M.S. Conrad

A BRACONID WASP (Microctonus aethiopoides) - INDIANA - New county records. Collected from Hypera postica (alfalfa weevil) adults by R.W. Meyer, determined by R.J. Dysart. Adults and parasites reared by R.G. Bingham. Collections made in 1979. Last released in Harrison County in 1967 and Knox County in 1968, not released in other counties. (R.W. Meyer).

District> County	Nearest city	Collection date
NW> Lake	Dinwiddie	May 16
NW> Porter	Malden	May 16
NC> St. Joseph	Wyatt	May 16
NC> Elkhart	Middlebury	May 16
NE> Lagrange	Wolcottville	May 15
NE> Noble	Merriam	May 15
NE> Whitley	Columbia City	May 15
NE> Huntington	Warren	May 15
NE> Wells	Roll	May 15
WC> Vermillion	Cayuga	May 8
WC> Vigo	Prairieton	May 8
WC> Clay	Bowling Green	May 8
WC> Owen	Spencer	May 9
C> Morgan	Chetwynd	May 9
C> Johnson	Mount Pleasant	May 9
C> Shelby	Rays Crossing	May 8
EC> Wayne	Fountain City	May 7
EC> Fayette	Connersville	May 7
SW> Knox	Emison	Apr 24
SW> Daviess	Washington	Apr 24
SC> Jackson	Tampico	Apr 23
SC> Harrison	Corydon	May 1
SE> Franklin	Cedar Grove	Apr 30
SE> Ripley	Elrod	Apr 30

FEDERAL AND STATE PROGRAMS

INSECTS

GRASSHOPPERS - KANSAS - Outlook for 1980 based on adults surveyed mostly in August. Rangeland--severe infestations (8 or more per 0.8 sq m most likely for SW district in parts of Seward, Meade, and Clark Counties, SC district in parts of Comanche, Barber, and Kiowa Counties, and WC district in parts of Gove County; threatening (3-7 per 0.8 sq m) in few other areas, mostly western one-third of State, more rangeland may belong to threatening range because some areas surveyed later than intended.

Cropland--no severe range in large areas with late-season egg-laying grasshopper populations (fieldwide); threatening range most common in western parts of SC district and eastern part of SW district. Populations spotty and found most frequently in pastures and alfalfa. Localized heavy infestations still expected in 1980 along weedy roadsides, fence rows, and other waste areas in many western counties but adequate rainfall during most of growing season, should confine feeding to weedy waste areas.

Dry weather from August to October over much of State favored survival of remaining grasshoppers on cropland and rangeland. Mild fall weather allowed extended egg laying. Unfavorable conditions, such as mild winter weather, high egg mortality due to predators and parasites, and early periods of warm weather next spring causing early hatch followed by periods cold enough to cause death of early hatch, could reduce populations in many areas to insignificant numbers in 1980. (R.J. Bauernfeind et al.).

NEBRASKA - Fall grasshopper survey completed September 3-7. Mostly Aulocara elliotti, Ageneotettix deorum, and Melanoplus sanguinipes economic (8 or more per 0.8 sq m) on about 2 million ha of rangeland, decreased about 800,000 ha from 1978 levels. Cordillacris occipitalis, Trachyrhachys kiowa, and Phlibostroma quadrimaculatum locally heavy in some areas, "hotspots" noted, but overall numbers down. Controls applied to 389,803 ha of rangeland in 1979. Mostly below economic levels where treated in 1979. Population trend expected to continue decrease in 1980, while economic damage to rangeland could continue economic for 2-3 more years. Damage could be extensive in 1980 if weather favors development. (J. Bell).

GYPSY MOTH (Lymantria dispar) - NORTH CAROLINA - Area> status: Statewide> collections totaled 18, decreased from 1978. Northern Mountain district> Avery County= only 8 males collected. Controls had been applied to area where 23 collections made in 1978; Outer Banks> number of collections decreased sharply. Eggs, pupae, and larvae not detected in above county or in Outer Banks area up to December 7. (T. Hunt). WEST VIRGINIA - New State record. District> County= collection data from Quercus sp. (chestnut oak): E> Jefferson= 1 larva, about 3rd instar, collected under burlap band June 5, 1979, by C.W. Tallman, determined by J.D. Hacker. (A.E. Cole).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - District> County= adults per pheromone trap per night: SW> Yuma= 4-26 at Yuma experimental station week ending November 30 and 0-10 week ending December 7. (C. Mullis). NEW MEXICO - District> County= larval status week ending November 30: SW> Hidalgo= none on lint cleaners at Cotton City and SE> Dona Ana= none at 4 gins. (F. Smith).

RED IMPORTED FIRE ANT (Solenopsis invicta) - SOUTH CAROLINA - New county records. District> County= collection data: NW> Pickens= 40 specimens collected on plants at Clemson, October 9, 1979, by L.R. Morgan, determined by R.F. Bollinger, host brought into locality March 15-16, 1978; Anderson= 35 specimens from nursery stock in rural area in Powdersville Community north of Pelzer at intersection of State Highways 81 and 153, October 11, plants brought into nursery every month of 1977-1978 season from all points south, both collected by L.R. Morgan and determined by R.F. Bollinger. (L.R. Morgan).

NORTH CAROLINA - District> County= S. invicta status week ending December 7: Central Coastal> Hyde= infestation detected in 1978 near Swan Quarter seemed under control; Hyde, Lenoir, and Beaufort= no mounds noted in 1979; Southern Coastal> Robeson, Columbus, Bladen, Duplin, Onslow, Brunswick, New Hanover, Pender; Central Coastal> Jones, Carteret, Pamlico, and Craven= infestations noted. (T. Hunt).

SCREWWORM (Cochliomyia hominivorax) - No cases reported from continental United States November 11 to December 8. Total of 185 cases confirmed in portion of eradication zone in Republic of Mexico. Total of 1,060 cases reported in Mexico south of eradication zone. Number of sterile flies released this period total 118,202,825 as follows: Texas 26,127,225; New Mexico 16,452,000; Arizona 57,945,600; and California 17,678,000. Total of 1,157,261,669 sterile flies released within eradication zone of Mexico. (J.E. Novy, M.E. Meadows).

General Vegetables - TOMATO PINWORM (Keiferia lycopersicella) heavy on 1.2 ha of tomato at 426.7-m elevation at Pulehu, Maui, week ending November 30. Adults and activity heavy and larvae moderate on 0.8 ha of greenhouse tomato at Glenwood, Hawaii Island, week ending December 7; loss due to pinworms averaged 10%. (N. Miyahira et al.). Larvae and adults of LEAFMINER FLIES (Liriomyza spp.) heavy on 1.2 ha of field tomato at 457.2-m elevation at Pulehu, Maui, week ending December 7. (E.R. Yoshioka). Infestations and foliar damage heavy on 1.6 ha of tomato at Pulehu, Maui, week ending December 14. (N. Miyahira, L.M. Nakahara). DIAMONDBACK MOTH (Plutella xylostella) damage heavy to formative heads of cabbage on 0.4 ha at 762.0-m elevation at Pulehu, Maui, week ending December 7. (N. Miyahira et al.). Infestations severe on 0.1 ha of Chinese cabbage (postharvest) at Omaopio week ending December 14. (N. Miyahira, L.M. Nakahara). ONION THRIPS (Thrips tabaci) infestations heavy on young and old leaves, caused moderate foliar damage to 0.4 ha of bulb onion at 731.5-m elevation at Pulehu, Maui, week ending December 7. (N. Miyahira). ARMYWORM (Pseudaletia unipuncta) heavy in kikuyu grass pastures at Makahalau at 853.4-m elevation on Hawaii Island in November. (E.R. Yoshioka, S. Matayoshi).

Ornamental and Shade Trees - Delimiting surveys for a WHITEFLY (Aleurodicus dispersus) conducted at Kahului, Maui, December 6, 1979, to determine rate of dispersion of incipient infestation. Source of infestation observed on several sea grape trees at Kahului, June 19. Infestations were detected by September 13 in 8.5-ha area downwind of prevailing northeast trade winds from infestation source. Surveys December 6 show pest dispersed over 112-ha area or 1.1 sq km. (L.M. Nakahara, N. Miyahira). New island record for WEST INDIAN FLATID (Melormensis antillarium). Infestations moderate on guava plant at Hanapepe, Kauai, October 23, 1979. Collected by D.T. Sugawa and L.M. Nakahara, determined by S.Y. Higa. Recorded from various ornamental trees and shrubs, including hibiscus, mock orange, and bougainvillaea. (L.M. Nakahara).

Man and Animals - Heavy WESTERN YELLOWJACKET (Vespula pensylvanica) adult activity at Piiholo near Makawao November 7, at 701.0-m elevation on Maui, few hundred meters from nest. Workers foraged in grasses and canopies of trees. Heavy activity indicated 1 or more other nests at location. (N. Miyahira, L.M. Nakahara). Heavy swarming of a NITIDULID BEETLE (Carpophilus humeralis) and DRIEDFRUIT BEETLE (Carpophilus hemipterus) at Haliimaile, Maui, most of November. Trapping in West Maui indicated continued heavy activity during November. Trapping program heavy around hotel areas to minimize swarming activity. (N. Miyahira).

Snail Pest - Widespread GIANT AFRICAN SNAIL (Achatina fulica) activity in November in most known infested areas on Kauai after start of rainy season. (D.T. Sugawa).

LIGHT TRAP COLLECTIONS

ARIZONA - Mesa, 12/16, BL - ARMYWORM (Pseudaletia unipuncta) 2, BEET ARMYWORM (Spodoptera exigua) 10, BLACK CUTWORM (Agrotis ipsilon) 1, VARIEGATED CUTWORM (Peridroma saucia) 1. CALIFORNIA - Manteca, 12/17, temp. 1.1-6.7°C, BL - Armyworm 1.

DETECTION

NEW UNITED STATES RECORD

INSECTS

A PHALACRID BEETLE (Acylomus sp.) - MICHIGAN - St. Clair County. (p. 844).

NEW STATE RECORDS

DISEASES

BLACK POPLAR SHOOT BLIGHT (Venturia (Pollaccia) populina) - CALIFORNIA - Contra Costa County. (p. 842).

CRAZY TOP (Sclerophthora macrospora) - NORTH DAKOTA - Cass County. (p. 834).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - LOUISIANA - East Baton Rouge Parish. (p. 842).

THREAD BLIGHT (Pellicularia koleroga) - KENTUCKY - Knox County. (p. 841).

INSECTS

AN APHID (Braggia urovaneta) - UTAH - District> County= collection data from Eriogonum sp. (eriogonum): E> Uintah= collected in Uintah Canyon in Uintah Mountains, July 21, 1966, by G.F. Knowlton, determined by C.F. Smith. (G.F. Knowlton).

A BUPRESTID BEETLE (Chrysobothris texana) - KANSAS - Clark County. (p. 842).

A CERAMBYCID BEETLE (Rhagium inquisitor) - OKLAHOMA - Haskell County. (p. 842).

EUROPEAN HOUSE DUST MITE (Dermatophagoides pteronyssinus) - NORTH DAKOTA - Griggs County. (p. 843).

GYPSY MOTH (Lymantria dispar) - WEST VIRGINIA - Jefferson County. (p. 846).

INTRODUCED PINE SAWFLY (Diprion similis) - IOWA - Fayette County. (p. 842).

A LADY BEETLE (Coccinella septempunctata septempunctata) - PENNSYLVANIA - Pike County. (p. 844).

A MIRID BUG (Amblytylus nasutus) - MARYLAND - District> County= collection data: NC> Baltimore= 4 specimens swept in field at Randallstown, June 13, 1979, by R. Sponaugle, determined by E.R. Hoebeke. (E.R. Hoebeke). Specific host unknown. (R. Sponaugle). DELAWARE - District> County= collection data: S> Sussex= 2 specimens swept in nursery field at Selbyville, May 29, 1979, by R.T. Remsburg, determined by E.R. Hoebeke. (E.R. Hoebeke). Specific host unknown. (R.T. Remsburg).

YELLOW SUGARCANE APHID (Sipha flava) - NEBRASKA - Pawnee County. (p. 836).

NEW COUNTY AND ISLAND RECORDS

DISEASES

CEPHALOSPORIUM STRIPE (Cephalosporium gramineum) - KANSAS - Sheridan and Cheyenne. (p. 836).

PINEWOOD NEMATODE (Bursaphelenchus lignicolus) - ILLINOIS - Du Page and St. Clair. (p. 842).

SORGHUM DOWNY MILDEW (Peronosclerospora sorghi) - KANSAS - Marshall, Reno, and Osborne. (p. 834).

SOUTHERN RUST (Puccinia polysora) - KANSAS - Lyon, Greenwood, Coffey, Osage, Jackson, Wabaunsee, Geary, Dickinson, Saline, Marion, Chase, Morris, Anderson, Neosho, Cherokee, Mitchell, Smith, Osborne, Rooks, Graham, Phillips, Norton, Decatur, Sheridan, Thomas, Cheyenne, Rush, Kiowa, Pawnee, Barton, Stafford, Pratt, McPherson, Sedgwick, Edwards, Butler, Harvey, Johnson, Miami, Linn, Franklin, Douglas, and Reno. (p. 833-834).

THREAD BLIGHT (Pellicularia koleroga) - KENTUCKY - Johnson and Martin. (p. 841).

INSECTS

AN APHID (Lachnus salignus) - OKLAHOMA - Texas. (p. 843).

BLACK PINELEAF SCALE (Nuculaspis californica) - FLORIDA - Hillsborough. (p. 842).

BLUE ALFALFA APHID (Acyrthosiphon kondoi) - NEBRASKA - Gage and Saunders. (p. 839).

A BRACONID WASP (Microctonus aethiopoides) - INDIANA - Lake, Porter, St. Joseph, Elkhart, Lagrange, Noble, Whitley, Huntington, Wells, Vermillion, Vigo, Clay, Owen, Morgan, Johnson, Shelby, Wayne, Fayette, Knox, Daviess, Jackson, Harrison, Franklin, and Ripley. (p. 845).

A BUPRESTID BEETLE (Chrysobothris texana) - KANSAS - Sedgwick. (p. 842).

A DIASPIDID SCALE (Aspidiella sacchari) - FLORIDA - Indian River and Sumter. (p. 838).

A DIASPIDID SCALE (Comstockiella sabalis) - FLORIDA - Sumter. (p. 841).

A DIASPIDID SCALE (Diaspidiotus liquidambaris) - FLORIDA - De Soto (p. 843).

A DIASPIDID SCALE (Lepidosaphes pallida) - FLORIDA - Bay. (p. 841).

EUROPEAN EARWIG (Forficula auricularia) - WISCONSIN - Rock. (p. 842).

EUROPEAN HORNET (Vespa crabro germana) - KENTUCKY - District> County= collection data (no host given): Midwestern> Hopkins= near Dawson Springs, August 1979 (exact date unknown), by A. Puckett, determined by C.M. Christensen; Muhlenberg= near Greenville, August 25, 1979, by J. Mayes, determined by R.A. Scheibner; and C> Green= near Greensburg, August 27, by G. Loyall, determined by R.A. Scheibner. (P.E. Sloderbeck).

GLOOMY SCALE (Melanaspis tenebricosa) - FLORIDA - De Soto. (p. 843).

AN ICHNEUMONID WASP (Bathyplectes curculionis) - WISCONSIN - Grant, Crawford, Richland, Green, Dane, Jefferson, Columbia, Dodge, Walworth, Racine, Waukesha, Washington, Ozaukee, Adams, Waushara, Fond du Lac, Sheboygan, Manitowoc, Kewaunee, Door, Buffalo, Trempealeau, Pierce, Dunn, Eau Claire, and Clark. (p. 844).

A NOCTUID MOTH (Lithophane laticinerea) - IOWA - Boone. (p. 842).

OBSCURE SCALE (Melanaspis obscura) - FLORIDA - De Soto. (p. 843).

RED IMPORTED FIRE ANT (Solenopsis invicta) - SOUTH CAROLINA - Anderson and Pickens. (p. 846).

SADDLEBACK CATERPILLAR (Sibine stimulea) - CALIFORNIA - District> County= collection data from various weeds: Southern California> Orange= larvae collected at Anaheim, September 13, 1978, by R.M. Le Feuvre, determined by T. Eichlin. (C.S. Papp).

SQUASH BUG (Anasa tristis) - TEXAS - District> County= collection data: South Texas> Webb= 18 adults collected in garden (no host available), May 16, 1978, by K. Esau, determined by R.L. Hodgdon. (J.A. Jackman).

A TABANID FLY (Esenbeckia incisuralis) - OKLAHOMA - District> County= collection data from yellow flowered composite (species unknown): WC> Blaine= several specimens collected in Roman Nose State Park, June 17, 1979. Collected and determined by A.L. Hollander. (D.C. Arnold).

WEST INDIAN FLATID (Melormensis antillarium) - HAWAII - Kauai. (p. 847).

WESTERN CORN ROOTWORM (Diabrotica virgifera) - NORTH DAKOTA - Dunn; ILLINOIS - Hamilton and White (p. 835).

WINTER MOTH (Operophtera brumata) - OREGON - Yamhill. (p. 841).

WEEDS

CANADA THISTLE (Cirsium arvense) - CALIFORNIA - District> County= collection data from roadside: Sierra Mountains> Mono= along Mill Canyon Road near Colesville, July 17, 1979, collected and determined by G. Milovich. (C.S. Papp).

OTHER NEW RECORD

A THISTLE (Cirsium ochrocentrum) - CALIFORNIA - New township record. District> County= collection data from ranch: NE> Modoc= collected northeast of Alturas, July 24, 1979, by B. Harden and C. Carver, determined by D. Barbe. (C.S. Papp).

CORRECTIONS

CPPR 4(42):817 - GRAPE COLASPIS (Colaspis brunnea) - ARKANSAS - Change chart heading from "Mean number of larvae per core ..." to "Mean number of larvae per 12 cores ..." (M.A. Mayse).

Pest Interceptions of Quarantine Significance at Ports of Entry

Plant Importation and Technical Support Staff
Plant Protection and Quarantine Programs, USDA

	Life Stage	Host	Probable Origin	Port of Entry	Officer	Destination
Belopoeus niger Arrow a weevil Det. D.R. Whitehead	adult	on stems of Sabal from baggage	Brazil	Miami	T. Halloran	FL
Leperisinus varius (Fabricius) a scolytid beetle Det. D.M. Anderson	adult	in dunnage	France	Charleston	B. Edmondson	SC
Paracoccus landoi Balachowsky a mealybug Det. S. Nakahara	adult	on leaves of Dieffenbachia plants from cargo	Costa Rica	Miami	W. Forster	FL
Schizolachnus sp. an aphid Det. M.B. Stoetzel	adult nymph	on Pinus plants from baggage	Japan	Kennedy Airport	N. Taketa	CT
Taphrorychus villifrons (Dufour) a scolytid beetle Det. D.M. Anderson	adult	in dunnage	Belgium	Savannah	J. Neal	--
Vinsonia stellifera (Westwood) star scale Det. J. Torres	adult	on leaves of mango from baggage	Jamaica	Miami	J. Torres	FL
Bidera* avenae (Wollenweber) Krall & Krall oat cyst nematode Det. W.F. Friedman	cyst	plants in soil from baggage	Israel	Kennedy Airport	T. Eng	NY

*Krall', E.L.; Kh. A. Krall'. Perestroika sistemy fitonematod semeistva Heteroderidae na osnove troficheskoi spetsializatsii etikh parazitov i sopriazhennoi evoliutsii ikh s rasteniiami-khoziaevami. In: Vsesoiuznoe obshchestvo gel'mintologov. Fitogel'mintologicheskie issledovaniia. Moskva, USSR: "Nauka"; 1978:39-56.

METRIC CONVERSION

1 cm = 0.393701 in
1 m = 3.28084 ft = 1.09361 yd
1 km = 0.621371 mi
1 sq cm = 0.155000 sq in
1 sq m = 10.7639 sq ft = 1.19599 sq yd
1 ha = 2.47104 acres
1 sq km = 0.386101 sq mi
1 kg = 2.20462 lb
1 t (metric ton) = 1.10231 short ton
1 kg/ha = 0.892183 lb/acre
1 t/ha = 0.446091 ton/acre

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